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## Safety Instructions

This STB has been manufactured to satisfy the international safety standards. Please read the following safety precautions carefully.

### MAIN SUPPLY

: AC 170-240~50Hz Max.25W

### OVERLOADING

: Do not overload a wall outlet, extension cord or adapter as this may result in fire or electric shock.  
Ensure that the power source (socket) is easily accessible.

### LIQUIDS

: This STB shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the STB.

### CLEANING

: Disconnect the STB from the main supply before cleaning. Do not use any kind of solvents to clean the STB, only use a soft-dry cloth.

### VENTILATION

: The slots on top of the STB must be left uncovered to allow proper airflow to the unit.  
Ensure a minimum distance of 5cm around the apparatus for sufficient ventilation.  
Ensure that the ventilation is not impeded by covering the ventilation openings with items such as newspapers, table-cloths, curtains, etc.  
Do not stand the STB on soft furnishings or carpets.  
Do not expose the STB to direct sunlight or do not place it near a heater.  
Do not stack electronic equipments on top of the STB.  
Do not place naked flame sources, such as lighted candles on the apparatus.

### ATTACHMENTS

: Do not use any unrecommended attachments as these may cause hazard or damage to the STB.

## Safety Instructions

### CONNECTION TO THE SATELLITE DISH LNB

: Disconnect the STB from the main supply before connecting or disconnecting the cable from the satellite dish.

FAILURE TO DO SO CAN DAMAGE THE LNB.

### CONNECTION TO THE TV

: Disconnect the STB from the main supply before connecting or disconnecting the cable from TV.

FAILURE TO DO SO CAN DAMAGE THE TV.

### EARTHING

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

### LOCATION

: Place the STB indoor in order not to expose to lightening, rain or Sunlight. Use the apparatus only in moderate climates (not in tropical climates).

### BATTERY HANDLING

: Batteries may contain toxic agents that are hazardous to the environment. Therefore, dispose of the batteries immediately according to the prevailing statutory regulations. Never throw the batteries in normal household waste.

## General Introduction

### INTRODUCTION

This manual will help you learn basic functions such as installation, selecting channels and many other functions of the STB. All functions can be operated by the remote control. You can easily install it by selecting "Installation" function and upgrade its software through communication cable.

The remote control is designed for easy access to all the functions at once and for comfortable grab for your hand. It is programmed to control all functions and to easily watch TV and Radio programs via the STB.

### WARNING

1. WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that objects filled with liquids, such as vases, shall not be placed on apparatus.
2. WARNING: The battery (battery or batteries or battery pack) shall not be exposed to excessive heat such as sunshine, fire or the like.
3. WARNING: The mains plug is used as disconnect device, the disconnect device shall remain readily operable.

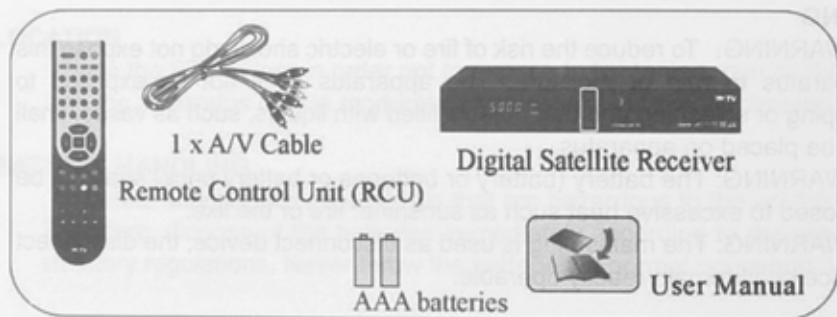


## General Introduction

### UNPACKING

Unpack the unit and check to make sure that all of the following items are included in the packaging.

- 1 x Remote Control Unit (RCU)
- 1 x User Manual
- 2 x AAA batteries
- 1 x Digital Satellite Receiver
- 1 x A/V Cable



We hope you enjoy using your digital satellite receiver!

## Front Panel/ Rear Panel

### Front Panel



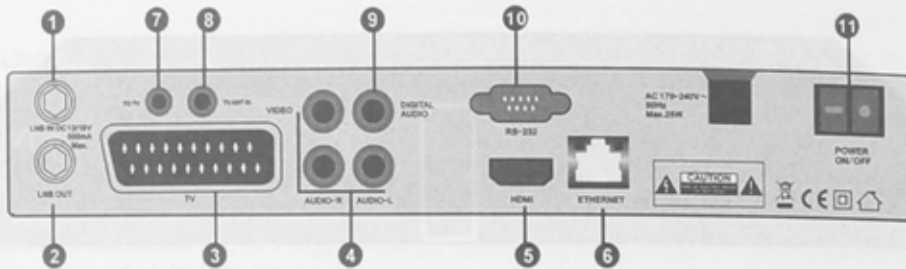
*Note: for all buttons, it is for touch. Please touch them softly.*

**⏻**: Press to switch between Operation and Standby modes.

**CH**: Change channels or items from top to bottom, right to left on the menus.

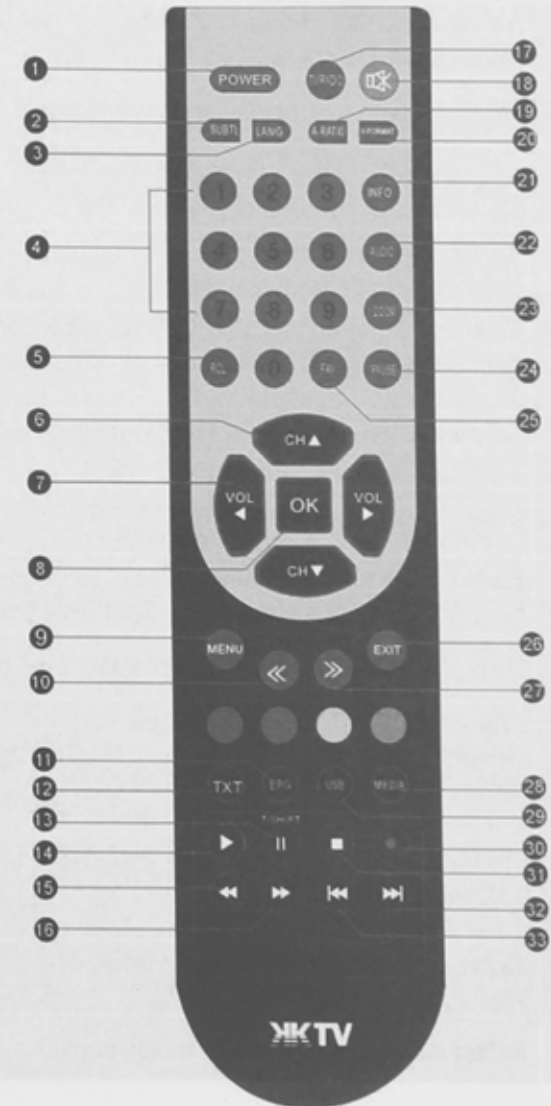
## Front Panel/ Rear Panel

### Rear Panel



No.	Symbol	Function
1	LNB INPUT	Use to connect an antenna.
2	LNB OUTPUT	Use it when connecting to another STB.
3	TV SCART	For the video/audio input of the TV.
4	A/V RCA	To connect the Audio/Video RCA output to TV.
5	HDMI	Connect to TV set by HDMI cable
6	ETHERNET	Connect to the internet
7	TO/TV	Connect to TV through Modulator.
8	ANT IN	Connect to Terrestrial Antenna through Modulator.
9	Digital Audio	SPDIF format sound by coaxial and optical output
10	RS-232	Use it when connecting to your PC.
11	POWER	Power ON/OFF switch.

## Remote Control Unit



## Remote Control Unit

1	<b>POWER</b>	Switches between Operation and Standby modes.
2	<b>SUBTL</b>	To turn subtitles on or off.
3	<b>LANG</b>	Chose language.
4	<b>0-9</b>	To choose a channel directly, or to enter numeric information in a menu.
5	<b>RCL</b>	Press to jump to previous channel watched.
6	<b>CH (▲/▼)</b>	Changes channels or items from top to bottom on the menu.
7	<b>VOL(◀/▶)</b>	Turns up/down volume. Changes the page of channel list.
8	<b>OK</b>	To show the channel list in viewing mode, and to select an item (or confirm a choice) in a menu.
9	<b>MENU</b>	To display the main menu, or return to a previous menu.
10	<b>&lt; &lt;</b>	Page up / down.
11	<b>EPG</b>	Electronic Program Guide button displays the TV/Radio program guide broadcasting by Satellite TV provider.
12	<b>TXT</b>	Displays TXT information broadcasting from satellite.
13	<b>T/SHIFT</b>	Press RECORD first then when you want to watch the elapsed portion of your program press TIMESHIFT and then rewind to the start using the FR function.
14	<b>PLAY/REC</b>	Press to play the media files from USB disk, or to start recording TV program.
15	<b>◀◀</b>	To fast rewind a movie or music track.
16	<b>▶▶</b>	To fast forward in a movie or music track.

17	<b>TV/RADIO</b>	Switches between TV and Radio modes.
18	<b>MUTE</b>	Turns sound on or off.
19	<b>A-RATIO</b>	Switches display ration between 4:3 to 16:9.
20	<b>V-FORMAT</b>	To cycle through the video definitions.
21	<b>INFO</b>	Displays the program in formation box on the screen.
22	<b>AUDIO</b>	To choose speakers (left, right or stereo), audio format and audio language.
23	<b>ZOOM</b>	Press to Zoom-in and Zoom-out picture.
24	<b>PAUSE</b>	Pauses to freeze the screen.
25	<b>FAV</b>	Selects favorite channel list or current channel list in the view mode. In Edit Channel mode's" Add favorite" menu it changes the right window's channel list.
26	<b>EXIT</b>	Press to exit the current menu.
27	<b>&gt; &gt;</b>	Page up / down.
28	<b>MEDIA</b>	To Multi-Media menu.
29	<b>USB</b>	To display the USB list.
30	<b>RECORD</b>	Press to start recording to an external USB Memory Device
31	<b>STOP</b>	Press to STOP playback when watching a recording, playing back a media file or to stop a recording.
32	<b>I◀◀</b>	To go to the end of a movie or music track, or go to previous doc.
33	<b>▶▶I</b>	To go to the end of a movie or music track, or go to previous doc.



## S.T.B Connection

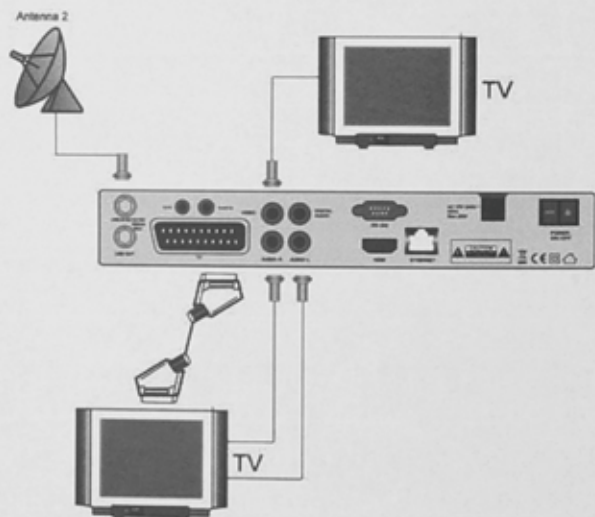
Various equipment and TV/VCR can be connected to STB. This manual will explain common ways to connect to the equipment. If you experience any problem, please contact your sales agency.

### 1. How to connect the STB to a TV set

(1) Connect one end of the SCART cable to the TV SCART socket on the back of the STB and the other end to the SCART input socket on your TV.

(2) Connect A/V RCA cable to A/V output on the STB, and the other end to A/V input socket on your TV.

(3) Connect the antenna cable to the LNB IN input connector of STB.



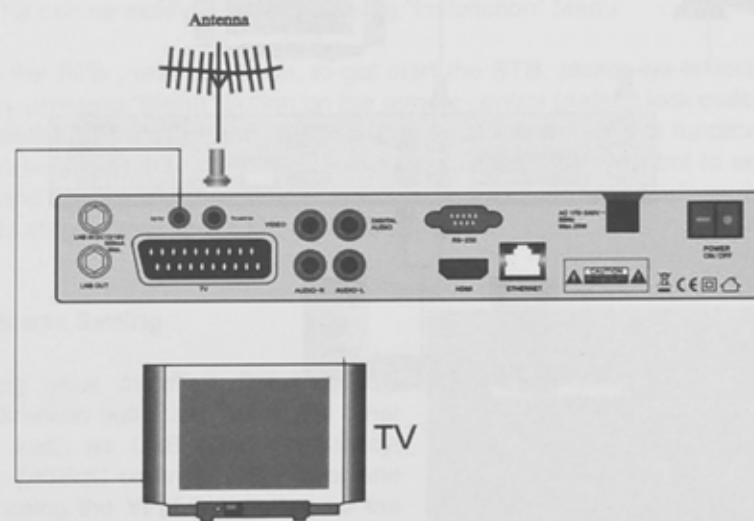
## S.T.B Connection

### 2. How to connect to Terrestrial Antenna

① Connect the ANT IN socket on STB to a Terrestrial Antenna, for the local television broadcasting signal.

② Connect the TO TV socket to input socket on TV using the coaxial cable.

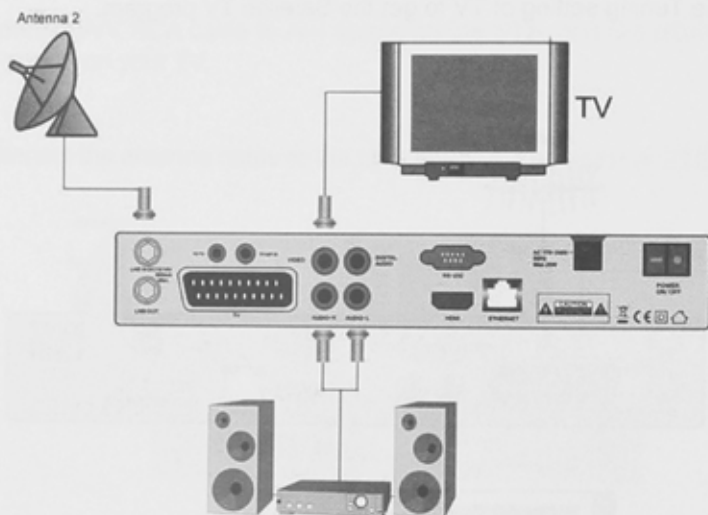
③ Adjust the Tuning setting of TV to get the Satellite TV program.



## S.T.B Connection

### 3. How to connect the Audio system

- ① Connect the AUDIO R, L socket of the STB to the Audio System like HI-FI, Amplifier, etc..
- ② Audio System must capable of stereo audio ability.



## Installation

Plug in the STB. Then press the "power" button on the remote control or the "Standby" button on the STB Front Panel. The Main Menu screen, the beginning of the OSD screen, will appear as shown in the following picture. The Main Menu displays various functions of the STB or you can select with **direction** buttons on the remote control. To proceed to the next stage, press the "OK" button on the remote control.



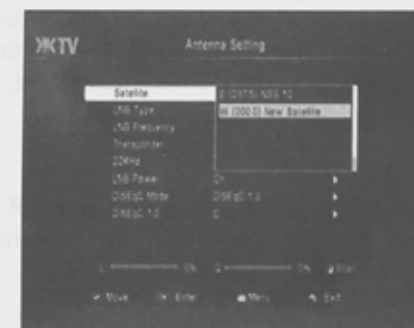
### 1. Installation

Your STB can be easily installed by using "Installation" Menu.

Plug in the STB, and power on, to get start the STB, please go to installation menu by pressing "Menu" button on the remote control (default lock code: 0000). The installation menu allows you to set the Antenna and various functions, and customize service. Use the direction buttons on the remote control to select an option and press the "OK" button to proceed to enter. To move backwards to the previous stage, press the "Exit" or "Menu" button.

#### 1.1 Antenna Setting

Selecting your installed Satellite, and press direction buttons to set all the other figures such as LNB type; Frequency; 22KHz; DiSEqC control; LNB Power and so on, using the YELLOW button on the remote control to **Save** the settings.





## Installation

### 1.2 Satellite List

#### Add satellite

Press the red button to add the new satellite to this STB.

#### Edit Satellite

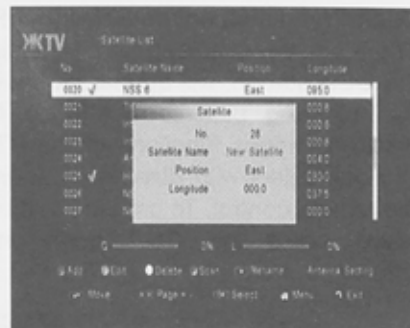
In the menu, you can view the satellite information, and edit the satellite.

#### Delete satellite

Press the yellow button to delete the satellite from this STB forever.

#### Scan satellite

Press blue button to star scan satellite.



### 1.3 Transponder list

You can edit with various option choices of transponder specifications and settings, also you can easily manually search a single transponder by selecting scan.

#### SAT

Here, select the satellite what you want.

#### Add TP

Press red button to add a TP. Input the frequency value and symbol rate value by numeric key, choose the correct Polarization, Horizontal or Vertical, the save it.

#### Edit TP

Press the green button you can edit the current TP. Input the frequency value and symbol rate value by numeric key, choose the correct Polarization, Horizontal or Vertical, the save it.

#### Delete TP

Press yellow button you can delete the channel you don't want to view.

#### Scan TP

Select the transponder scan that you want to scan in particular satellite

## Installation

### 1.4 Motor Setting

To set up the auto satellite dish (DiSEqC 1.2 system) and generate the position system.



## Channel

### 2. Channel

You can easily access to any TV and Radio programs by the variable functions available from this STB, and enjoy your digital entertainment TV fun.

#### 2.1 Channel Manager

##### SAT

Press Red button to display ALL channels by original scanning order. If you search more than one satellite, also the satellite sorts the channels.

##### Lock Channel

Enter here, you can lock the current channels. (Default password: "0000")

##### Delete Channel

Press green button to select the channel you wish to delete, then press Yellow button to delete the selected channel from STB.

##### Move Channel

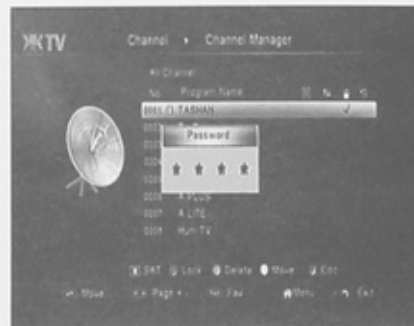
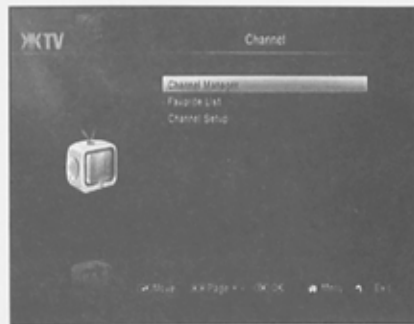
Press Red button to select the channel you wish to move, then press Green button to pop-up Move-To menu and input channel numbers you wish to move, and press OK button again to insert.

##### Skip Channel

Press yellow button to select the channel you wish to skip, then press yellow button to skip the channel that you do not wish to view.

##### Edit Channel

Press blue button, then you can use the color buttons to rename, modify



## Channel

### 2.2 Favorite List

The easy to use functions of Set Favorite enhance the flexibility of operating huge amount of TV and Radio Channels in your STB. Personalize it with your own way of interests can increase the joy of Digital Entertainment.

##### Set TV Favorite

There are total 8 groups of Favorite Sorting; you can rename each Favorite group with Green button.

Press Left/right button to select Favorite group, up/down buttons to change channels, Red button to mark the channel to related Favorite group.

Example to make Channel 1 to News group -- FAV 1:

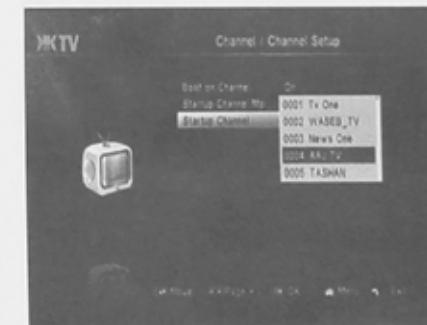
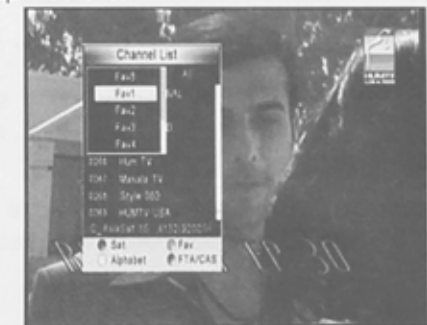
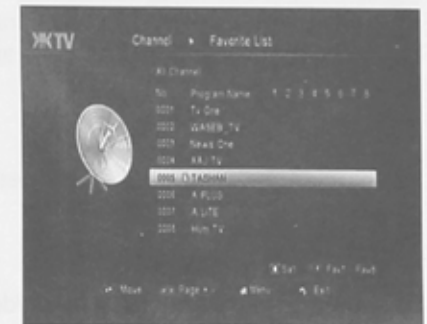
Move cursor to Channel 1 with Up/Down buttons, then press Left/Right buttons to select the group of FAV 1, press RED button, then you will see a logo displayed at the right beside channel 1, Now channel 1 is already within FAV 1 group.

##### Set Radio Favorite

Operation procedure is same as Set TV Favorite.

### 2.3 Channel Setup

Enter this menu to setup the channel information



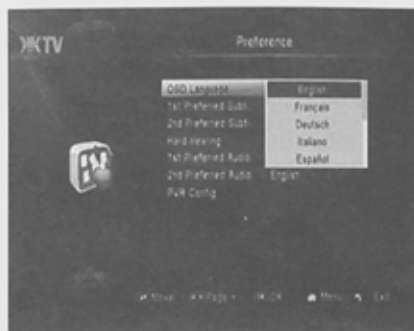
## Preference

### 3. Preference

Press "OK" button to enter into preference menu to set OSD language, subtitle, audio, PVR

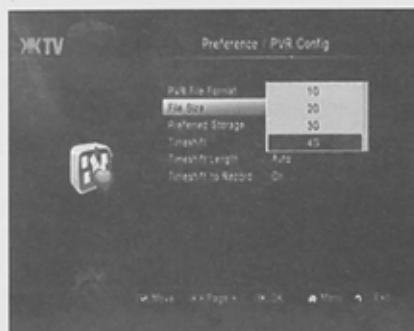
#### OSD language

Select the preferred OSD languages by up/down button



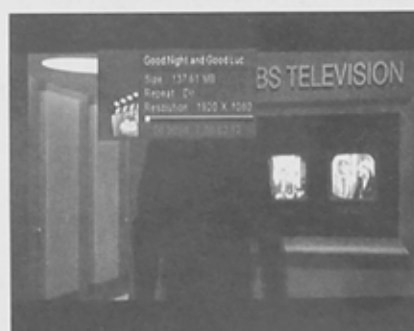
#### Subtitle

Select the preferred subtitles by up/down button



#### Audio

Select the preferred audio by up/down button



#### PVR Config

In this menu, select recorded file, and press "OK" to preview, In preview menu, the operations of skip, pause, forward, backward, previous, next etc. are available.

## Setting

### 4. Setting

Basic setting of the STB

#### 4.1 Timer

##### Delete all

Press red button, to delete all timer

##### Delete

Press green button to delete the timer you select

##### Edit

Press yellow button to edit timer

#### 4.2 Child Lock

To prevent the unauthorized accessing of your STB, you can set the child lock password to your receiver (Default password: "0000")

#### 4.3 Date Time

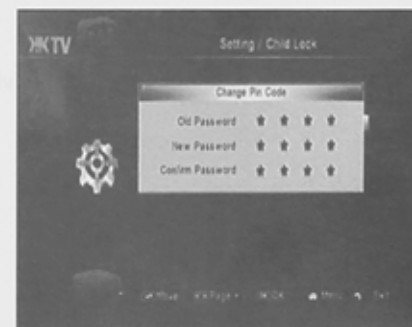
You can choose auto Date Time Mode to setting date time automatic and manual, also can select Time Zone to choose zone automatic and manual

#### 4.4 Factory Reset

Set default the factory settings, by choosing ALL or CHANNELS, and press "OK" button to proceed. (Default password: "0000")

All: Set default software settings and channels to be factory settings.

Channel: Set default only channel to be factory settings.





## 4.5 Upgrade

Choose path to new software file, which is saved in USB disk device, select and press "OK" to proceed

To set factory default should be the first thing to do after updating

## 4.6 Smart Card

Input your smart card to the CA slot of this STB, you can enjoy your card and channels also get the CA information here

## 4.7 Vision

Press "OK", you can get vision information of this STB



## 5. AV output setting

To set the basic specifications of your STB about AV output

To set TV type by choosing NTSC; AUTO; PAL and SECAM, strongly suggested to set always AUTO.

### 5.1 Contrast

Select a number for your STB

### 5.2 Brightness

As you like, select brightness, also strongly suggested to set Auto

### 5.3 SPDIF

Set to Bitstream, Mute, PCM

### 5.4 Aspect Ratio

To set from 16:9 wide screen to 4:3 TV screen format.

### 5.5 Video Output

To set the related Video Output by CVBS, RGB, YUV

### 5.6 Video Resolution

Video resolution reach to 1080p-60,1080p-50,1080i-25....

### 5.7 HDMI Color Space

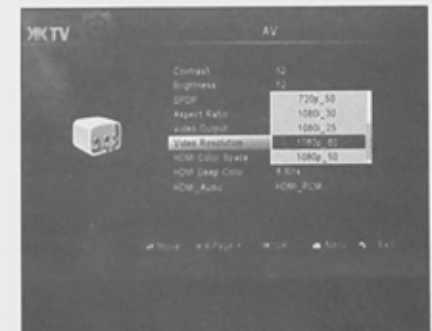
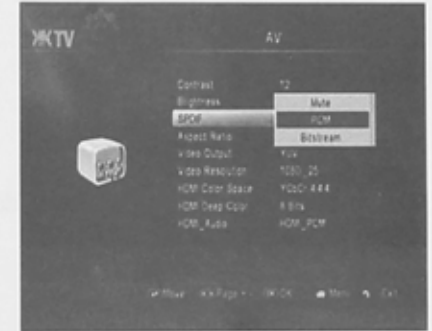
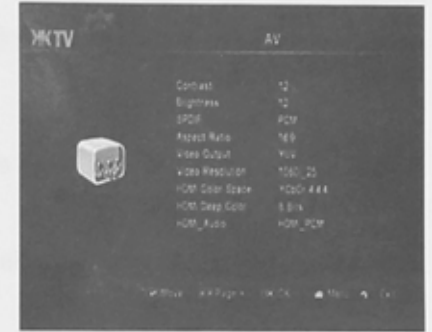
You can select xyColor, RGB, YCbCr 4:2:2,YCbCr 4:4:4

### 5.8 HDMI Deep Color

Set to 12Bits, 8Bits,10Bits

### 5.9 HDMI\_Audio

Set HDMI\_Mute, HDMI\_PCM, HDMI\_RAW



## Game

### 6. Games

This receiver contains five highly enjoyable games, which you can get the joy while relaxing.

#### Box Man

The classic game, anytime you can enjoy

#### Tetris

The classic game of all time, Tetris is one of most highly playable game.

#### Hit Rat

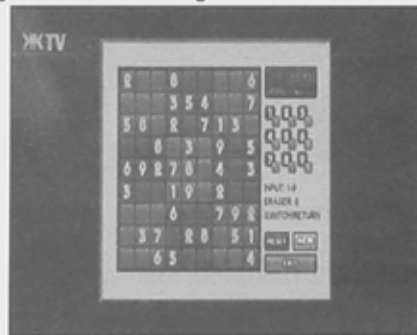
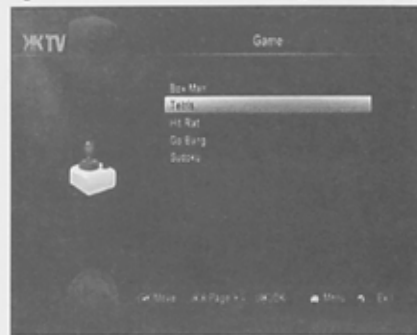
Any time you like, select the game

#### Go Bang

Any time you like, select the game

#### Sudoku

The classic game of modern times, do not get snake too long.



## Multi Media

### 7. Multi Media

This is very especially function of this STB with Multi Media function, here you can enjoy more movie, music, photo, native32 games, record manage, disk manager.

#### 7.1 Movie

Load the movie you like into you USB, hard disk as so one to open enjoy your move.

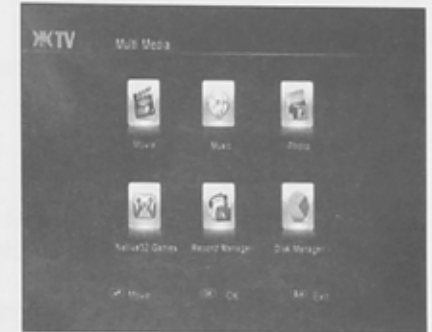
Format supported :AVI, VOB, MPG, DAT  
Backward and forward: Press "◀◀/▶▶" to play ◀◀/▶▶ at max x20 speed.

#### 7.2 Music

Go to USB, disk music menu, choose path to music files, select one and press "USB Play" or "OK" button to start play. Press "Exit" or "USB Stop" to stop and back to music menu.

#### 7.3 Photo

Big Capacity for all of your photos, better one any STB you experienced before. Go to photo menu, choose path to photo files, for the picture selected, there is preview in right side, and use "OK" button to full screen display. Press "Exit" stop and back to photo menu.



## Multi Media

### 7.4 Native 32 games

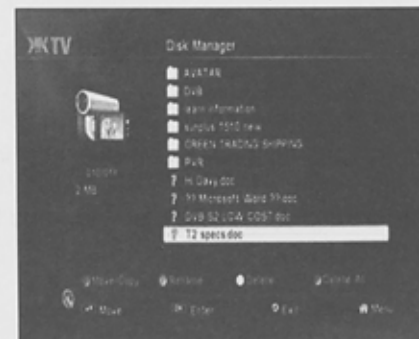
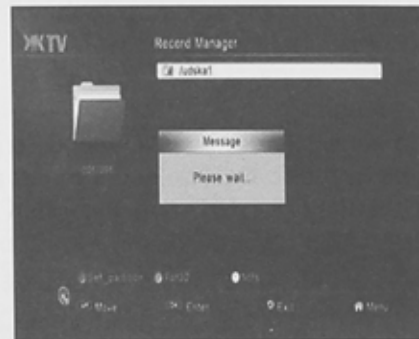
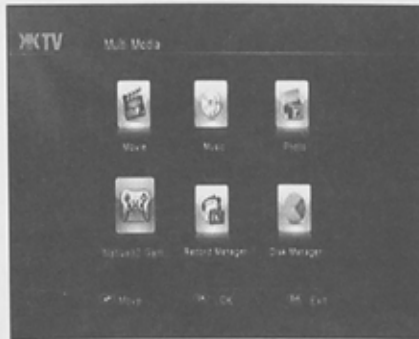
Native 32 Game upload & download to USB /Card then Game.

### 7.5 Record manager

Record favorite TV program to USB disk device, and review it at anytime in future.

Before to record TV program, connect hard disk to receiver, and go to PVR partition select menu, choose disk partition, where the recorded file is supposed be saved. Only root directory is available, can't set path to folders.

Information: press "Info" button to check details information when recording, such as recorded time, available free memory size etc.



Format of recorded file: recorded file will be saved in format of MPG.

PVR preview: in PVR preview menu, select recorded file, and press "OK" to preview. Press Yellow button turn to full screen.

In preview menu, the operations of skip, pause, forward, backward, previous, next etc, are not available.

### 7.6 Disk Manager

To view and manage all USB, disk information, and select different show file format

## Network

### 8. Network

This is very strong function and especially experience via internet on line in this STB.

#### 8.1 Ethernet Config

Select your config in your USB, disk to enjoy internet function

#### 8.2 Web Application

Here you can enjoy more games, photo, google map, and yahoo weather on line through internet

#### N32 games

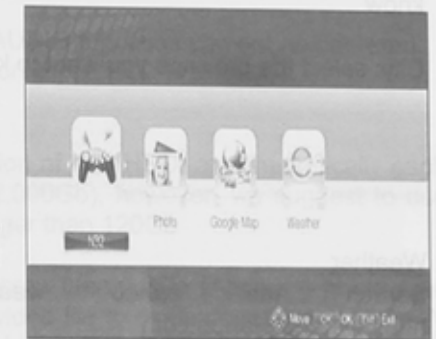
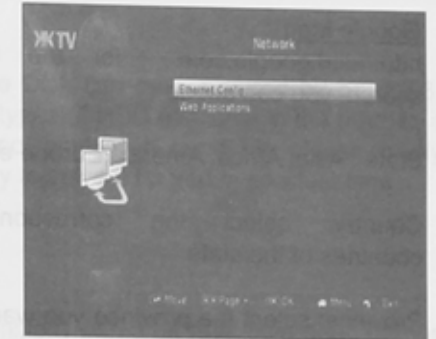
Native 32 Game upload & download to USB /Card then Game . Download manager

<http://www.native32.com>

#### Photo

Different with USB local pictures or photos, by internet , you will enjoy more popular and latest

Flickr (<http://www.flickr.com> ) ,  
Picasa (<http://picasaweb.google.com> ) ,  
Yupoo (<http://www.yupoo.com> )





## Network

### Google Map

<http://ditu.google.com> for the map search, you can set up :

State : Asia, Africa, America, Europe etc...

Country: select the corresponding countries of the state

Province: select the province you want to know

City: select the province you want to know, and then press "OK" to view the map



### Weather

Search the yahoo weather <http://weather.yahoo.com>

Similarly, select the State, Country, Province and City to see all the weather situation wherever you want



## PVR Instruction

### Supported Device:

- 1) Most of popular USB2.0 Hard Drive Disk can be supported by our STB, however due to there are too many types of HDD available in the market, if you find one particular HDD can not work with our STB, please kindly provide it to us, and we will be happy to solve it for you in shortest time.
- 2) System required: FAT32
- 3) Speed required: 5400rpm

### Instructions to TV program

- 1) Any SD TV program (Standard Definition) with a bit rate lower then 6Mbps can be recorded by this STB.
- 2) During recording, EPG; TXT; Multi AUDIO functions can not be operated.
- 3) Recorded TV program will not support EPG; TXT; Multi AUDIO.

### Recording Capacity

- 1) Our STB can support up to 4 partition of one HDD, and theoretically each partition can allow up to 2TByte (2,000Gb), however, we suggest to use one HDD with each partition not bigger than 120Gb
- 2) Each recorded video file will not bigger than 3.8Gb (Approx 4 hours), the STB will automatically create new video file to continue recording your TV program if the recorded video file is bigger than 3.8Gb.

### How to choose and set different partition from my HDD ?

Usually there are several partition available in HDD, and our STB can allow you to choose different partition for recording purpose, choose from PVR partition menu, menu of Device List will pop-up, it lists all partitions your HDD has, choose the one you want, and press OK button to save. Then the recorded video file will be stored into this partition.

### WARNING

USB1.1 or USB2.0 Key or Stick (Including MP3 player)

- 1) We strongly suggest not to record any TV program by USB Key or Stick, because a huge of different USB Key or Stick are indeed available in the market with different quality level, we do not guarantee any damage of your USB Key or Stick from the attempting recording.
- 2) Do not remove your USB device from STB while it is in use of any USB multimedia function.

## Troubleshooting

When you found some problems about this STB, please check the table as below. Because these may not be any serious problems:

Fault Phenomenon	probably reasons	Resolve
Power on, but no display on screen	Please carefully check the power plug, to see it is in socket of wall or not? Is power interrupted?	Put firmly the power plug to the socket on the wall.
Power on this STB, then that screen displays "No signal"	Is the aerial install correct?	Reinstall the aerial and calibrate it
	LNB input is not connect	Connect the LNB
	The transmit station turns off	Attempt until the signal coming again
	The sky wave disturbs the device	Attempt again later
	The program setups are incorrect	Set the proper parameters of received program in the system settings menu
STB plays a strange sound	Due to the channel contain more audio tracks or audio languages	User can use the "Audio" button on the RCU to select the correct audio track or audio languages
USB Game Become Black and White	The TV color system setting is not same as STB TV type	Make sure the STB TV system set to the same system (PAL; NTSC; AUTO ) of TV system.

Tips: If you refer to this troubleshooting, but no resolve that problem you encountered. Please contact the local dealer or technical supports instantly, do not open the machine, because that is very dangerous to you or to the machine in that cases.

## Glossary

### (1) 22KHz switch

A tone that can be sent via the LNB coax, this tone can control the LNB or switches on the coax cable. Do not interfere with the DC or 22KHz tone that the receiver sends to the dish.

### (2) Antenna

A device that collects and radiates electromagnetic waves includes a satellite dish and a broadband antenna.

### (3) CVBS

Composite Video Baseband Signal, Standard single-wire video, mixing lum and chroma signals together.

### (4) DiSEqC

Digital Satellite Equipment Control, a protocol established by EUTELSAT organization [www.eutelsat.com](http://www.eutelsat.com), the most popular standard are DiSEqC 1.0 for Switching solution, DiSEqC 1.2 for Dish actuator solution, and DiSEqC 2.0 for Satellite Receiver solution.

### (5) Forward Error Correction (FEC)

A system of error control for data transmission

### (6) Frequency

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

### (7) Intermediate Frequency (IF)

A frequency to which a carrier frequency is shifted as an intermediate step in transmission or reception

### (8) Low Noise Block (LNB) Down converter

A low noise microwave amplifier and converter which down converts a range of frequencies to IF range

### (9) NTSC

National Television Standards Committee, a video standard established by the United States (RCA/NBC) and adopted by numerous other countries.

### (10) PAL

Phase Alternate Line, a video standard used in Europe and other parts of the world for composite color encoding.



## Glossary

### (11) Packet Identifier (PID)

A set of numbers that identifies transport stream packets containing data from a single data stream

### (12) Polarization

Satellite waves are polarized. They can be linear or circular. Linear polarity is Vertical or Horizontal, circular polarity is Right-hand and Left-hand circular polarity.

### (13) Quaternary Phase Shift Keying (QPSK)

Phase-shift keying in which four different phase angles are used.

### (14) RF

A frequency that is useful for radio transmission, usually between 10KHz and 300,000Mhz.

### (15) RGB

Video information in the form of Red, Green and Blue tristimulus values. The combination of three values that representing the intensity of each of the three colors can represent the entire range of visible light.

### (16) STB

Set Top Box, another common name of Digital Satellite Receiver, because it usually be put on top of TV in household. This word is used now worldwide.

### (17) Symbol Rate

The amount of data transmitted every second.

### (18) Transponder (TP)

Equipment in a satellite which receives a single uplink channel from a satellite earth station, amplifies it, converts the frequency and changes the polarization, then broadcasts it back to earth.

### (19) Transport Stream

The bit stream formed prior to transmission of signals by combining the video, audio and data streams of one service. It consists of fixed length packets of 188 bytes of data.

## Specification

### 1. MPEG Decoding

Transport Stream & Profile Level	Mpeg-4, H.264, Mpeg-2 MP@HL, MPEG/AVC
Input Data Rate	120Mbit/s Max
Video Format	576i, 576p, 720p, 1080i, 1080p
Audio Decoding	MPEG1 Layer I&II, Mpeg2, MPEG4 AAC and MPEG4 AAC-HE (AAC+), Dolby Digital(AC-3), MP3, WMA
Audio Mode	Left, Right, Stereo
Sampling Freq	32, 44.1, 48, 96Khz

### 2. Demodulator

Audio Mode	Left, Right, Stereo
Sampling Freq	32, 44.1, 48, 96Khz
Demodulation	QPSK/8PSK S2
Symbol Rate	2~45MS/s
Outer Decoder	RS(204, 188, 8)
Code Rate	1/2, 2/3, 3/4, 5/6, 7/8

### 3. Tuner

Input Frequency	950MHz to 2150MHz
Input Impedence	75 ohms
Input Level	-65dBm to -25dBm
Input Socket	F type connector
LNB Power	H:18V, V:13V, Max 500mA

### 4. Output Connector

Scart	1xTV Scart
HDMI	HD Video/Audio, Ver1.2, Type A
CVBS	3xRCA
Digital Audio	1xDigital Audio
USB	2.0 host



## Specification

5. Data Trans	
Ethernet	1XRJ45
RS232	Male 9pin
HDD Format	FAT & NTFS
6. Main System	
CPU	300MHz,BGA
Flash	64M Byte
S-Dram	DDR2 2X512M,Byte
7. General	
Supply Voltage	AC 170-240V~50Hz Max.25W
Power Consumption	25 watts Max
Standby Power	1 watts max.
Operation Temperature	+5°C to +40°C
Storage Temperature	-20°C to 70°C
Dimension	250mm X175mmx38mm