ISTAR

DIGITAL SATELLITE RECEIVER

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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 100/240V, 50/60Hz, 30W.

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 equipment's on top of the STB. Do not place naked flame sources, such as lighted candles on the apparatus.

ATTACHMENTS

:Do not use any unrecompensed 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

Any problems can be caused by the use of unofficial software. The use of software versions other than dealers or distributors official software will void the manufacturer's warranty. It is advised that only the formal software released from dealers or distributors should be used.

UNPACKING

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

2 x Remote Control Unit (RCU)

1x User Manual

2 x AAA batteries

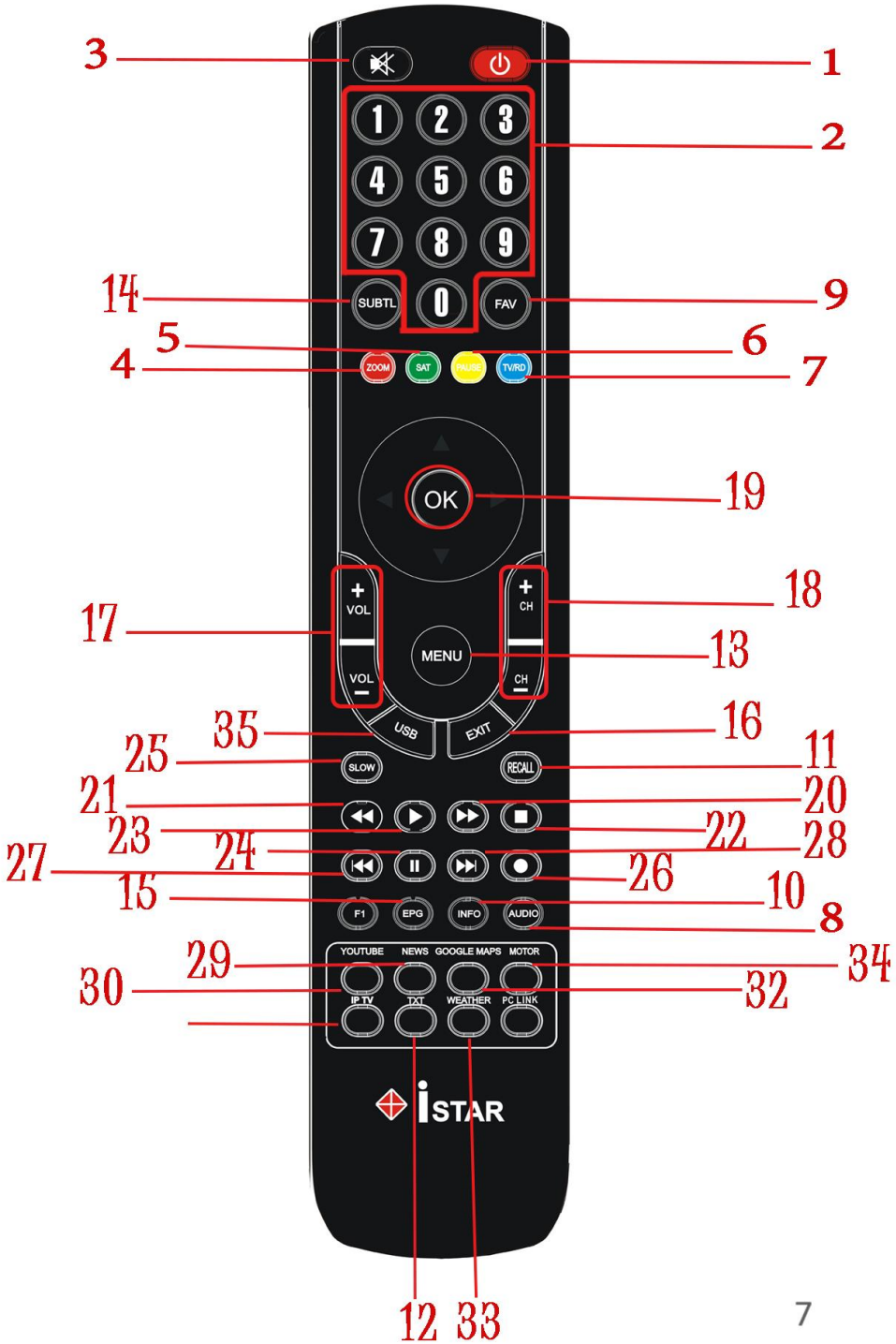
1 x Digital Satellite Receiver

1 x A/V Cable

1 x IR Cable

1 x HDMI Cable

Remote Control Unit



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Remote Control Unit

1	(⏻)	Switches between Operation and Standby modes.
2	1-9	Changes channels or selects the menu options.
3	MUTE	Turns sound on or off.
4	ZOOM	Press to Zoom-in and Zoom-out picture.
5	SAT	to display SAT list.
6	PAUSE	Pauses to freeze the screen
7	TV/RD	Switch between TV and Radio mode.
8	AUDIO	Changes audio mode to left right and stereo.
9	FAV	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.
10	INFO	Displays the program in formation box on the screen.
11	RECALL	Press to jump to previous channel.
12	TXT	Displays TXT information broadcasting from satellite.
13	MENU	Moves to main menu during TV viewing.
14	SUBTL	Subtitle functions
15	EPG	Electronic Program Guide button displays the TV/Radio Program guide broadcasting by Satellite TV provider.
16	EXIT	Press to exit the current menu.
17	VOL(◄/►)	Turns up/down volume. Changes the page of channel list.
18	CH(▲/▼)	Changes channels or items from top to bottom on the menu.

19	OK	Displays the channel list and selects the item on the menu.
20	FORWARD	Press to speed playing to be x2, x4, x8, and x20 a normal.
21	BACKWARD	Press to make playing file backward as speed of x2, x4, x8, and x20 of normal.
22	STOP	Press to stop file playing, and back to menu
23	PLAY	Press to play the media files from USB disk,
24	PAUSE	Pauses to freeze the screen
25	SLOW	Slow down playing speed to be 1/2, 1/4 of normal.
26	RECORD	Press to start recording TV program.
27	FORMER	Press to skip the playing file to play the previous file.
28	NEXT	Press to skip the playing file to play the next file
29	NEWS	Shortcut to direct access news center folder
30	YOUTUBE	Shortcut to direct access Youtube function
31	IPTV	Shortcut to direct access Internet Protocol TV under network
32	MAP	Shortcut to direct access Google Map function
33	Weather	Shortcut to direct access Weather function
34	Motor	Support DiseQc Motor
35	USB	Shortcut to Direct to open USB

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.

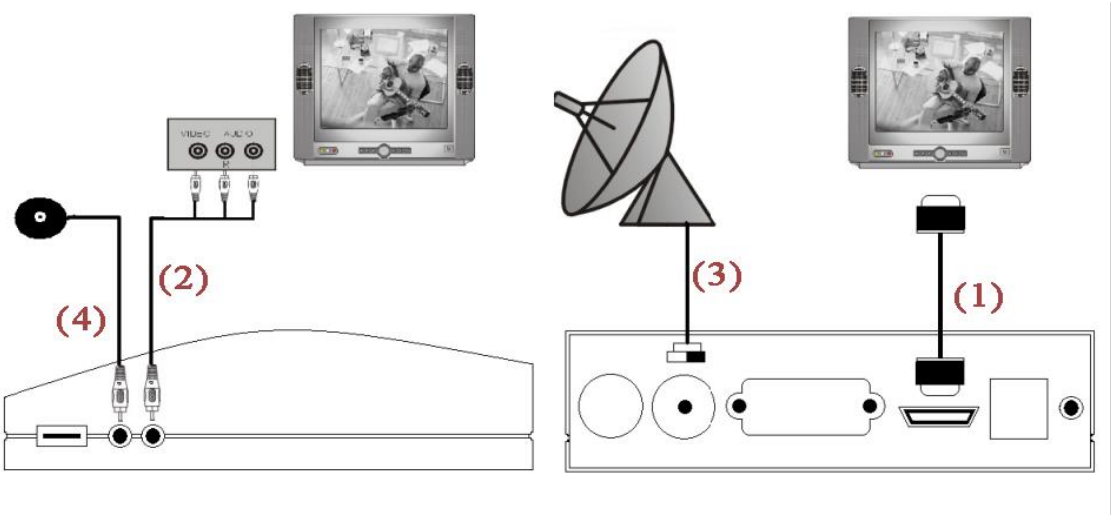
1. How to connect the STB to a TV set

(1) Connect HDMI cable to the HDMI socket on the back of the STB and the other end to the HDMI 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.

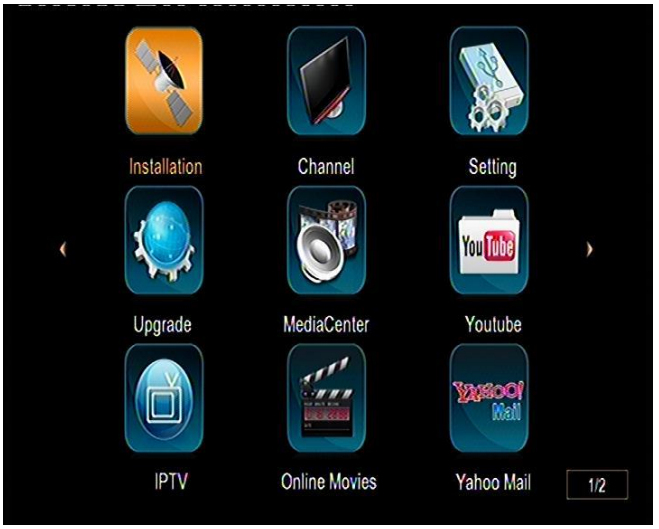
(3) Connect the antenna cable to the LNB IN input connector of STB.

(4) Connect to IR cable and carry front of the TV set.



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 "CH", “VOL” buttons and the numeric buttons on the remote control. To proceed to the next stage, press the "OK" button on the remote control.

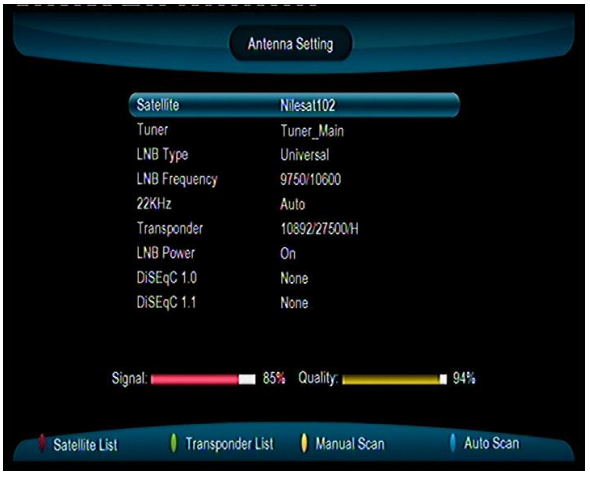


1. Starting Plug in the STB, and power on, there are foreign languages for your choice, choose the one you prefer. Then, pls press "Menu" on the remote control to get started.

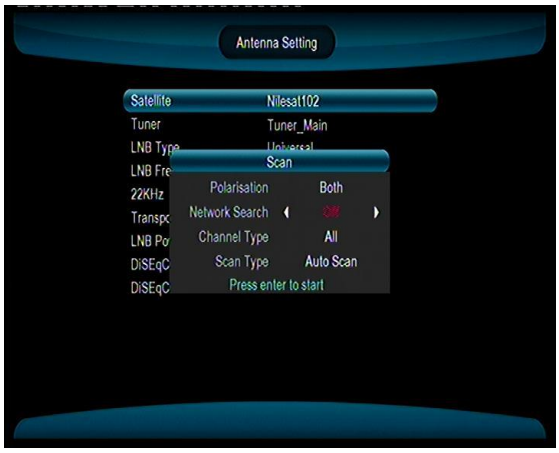
To get start the STB, please go to installation menu by pressing "Menu" button on the remote control (default lock code: 0000). The installation menu allows you to set the Antenna and various functions, and customize service. Use the "CH" buttons on the remote control to select an option and press the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

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

Selecting your installed Satellite on the right side, and press "Vol+" button to enter into left side, then set all the other figures such as LNB type; Frequency; 22KHz; DiSEqC control; LNB Power and so on, using the "Vol" buttons on the remote control then Save the settings



Installation



ALL + NIT: To Search out all the Free Channels + Scrambled Channels available in particular Satellite or Transponders including the new transponders that are not preprogrammed in your STB but broadcasting by Satellite Provider.

Then press "OK" button to start searching, while the related menu shows a details info of the scanning status.

1.2 Multi -Satellite Scan: Press "OK" button to select the Satellite that you want to scan and your STB can be installed by up to 4 Satellites through a separated DiSEqC Switch component.

Setting each satellite port to be in accord to each DiSEqC port. Then press SCAN to start searching by numberic order.

1.3 Satellite Edit:

In this menu, you can view the satellite information, and edit the satellite by green button Rename and Modify Using the "Vol" or numeric buttons.

Add:

Press the Red button to add the new Satellite to this STB.

Delete:

Press the Yellow button to delete the Satellite from this STB forever.

Edit:

Press the Green button to edit the name and direction of Satellite to this STB.

Scan:

Press the Blue button to Scan the Satellite to this STB.

Installation

1.4Transponder:

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

Add TP:

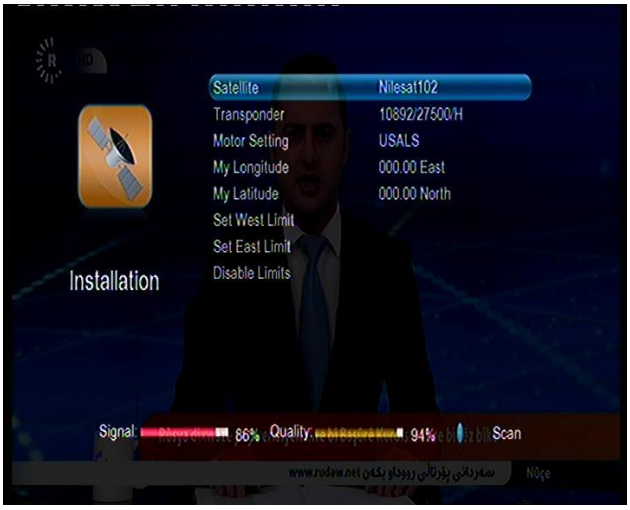
Press Red button you can add a TP Input the frequency value and symbol rate value by numeric key, choose the correct Polarization, Horizontal or Vertical, then save it.

TP Edit Press 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, then save it.

Delete TP Press Yellow button you can delete the current TP.

Scan Press blue button you can scan the current TP. The scan mode is the same as satellite, FTA; ALL; FTA+NIT; ALL+N IT.

Installation



1.5 Motor Configuration To set up the auto Satellite Dish (DiSEqC1.2 system) and generate the positioner system.

Continuously Move Using the "Vol" buttons to adjust West and East to move the dish, the bar of signal and quality at the bottom of the screen judge the best position of the dish.

Step Size Adjust the Move Step from 1 to 10.

Move steps Dish move step by step, adjust the dish to the best position.

Limit set using the "Vol" buttons to fix East or West limit or disable limit status.

1.6 USALS Setup To set up the USALS system onto your STB.

If you have a USALS motorized system, you must set your position (latitude and longitude) in order to calculate all motor positions for viewable satellites. You should refer to the motor's manual to get.

Installation

Set the correct value of Longitude and Latitude of your position, press OK key, then you can see the moving direction and angle to your selected satellite from Motor menu.

Channel Manager

2. Channel Manager 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. TV Channel Edit Use the color buttons to select from Rename; Move; Lock; Delete functions to operate your TV programs.

Rename: Press Green button, then you can use the color buttons to Rename, change the name of channels the channels.

Delete: Press Red button, you can Delete the current channel. After that these channels can't show on the list.

Lock: Press Blue button to select the channel you wish to Lock, then press blue button, you can lock the selected channel from authorized watching.

Move: Press Yellow button to select the channel you wish to move, press Red button to pop-up Move- and pop-Down Move To menu

and Green Button Move to input channel numbers you wish to move, and press OK button
Blue Button Group Move select witch channels do you want move it by Group

Return: Press exit button, you can return to previous menu.

Channel Manager

Radio Channel Edit Press the TV/RADIO button on remote control to change the TV mode to Radio mode, and then get into the "Channel Manager" menu, the same procedure as TV Channel Edit.

Channel List Press OK button on the remote control, the channel list will be displayed, there are total 10 channels as well as brief information of channel in one page, and press "CH" buttons and "Vol" buttons to move in the list, and press "OK" button to select current channel, press "OK" button again, to exit Channel List Menu to enjoy watching.

With colored buttons (Red; Blue; Yellow; Green) presented at the bottom of menu, you can easily select the different sorting facilities, operating the related color buttons on remote control to select the desired functions.

SAT - Green Press green button to display ALL Satellite by original scanning order. If you search more than one satellite, also the satellite sorts the channels.

Group - Press Red button to see group of channels like

FTA: The channels are free to watch.

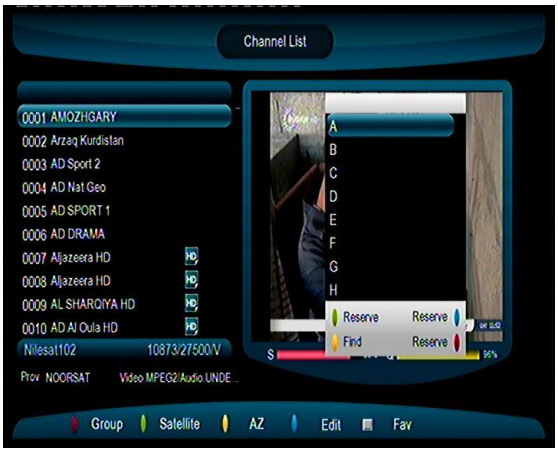
CAS: The channels are scrambled coded.

HD: the channels that just HD 1080p

SD: the channels that just SD half quality

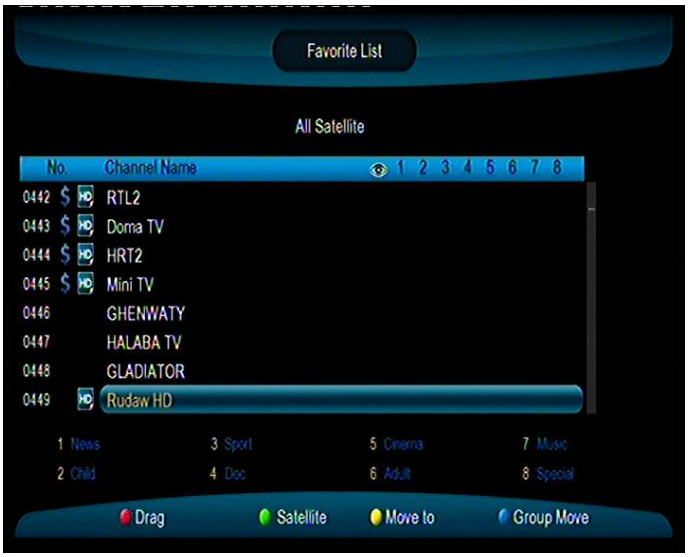
AZ - Press Yellow button to highlights Alphabet to choose from A-Z sort the channels by Alphabetic order, you can also choose Green button "A", "B", "Z" to sort the channels.

Sort



Find - Yellow Press yellow button to display all of searched channels,

FAV Group – stop Press FAV button to highlights FAV group, and the channels are sorted by the FAV group.



2.2 Favorite Manager 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:

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

Move "CH" to Channel 1, then move "Vol" to select the group of FAV 1, press OK then you will see a logo displayed at the left beside channel 1, then press Red button to save, Now channel 1 is already within FAV 1 group.

Set Radio Favorite Operation procedure is same as Set TV Favorite.

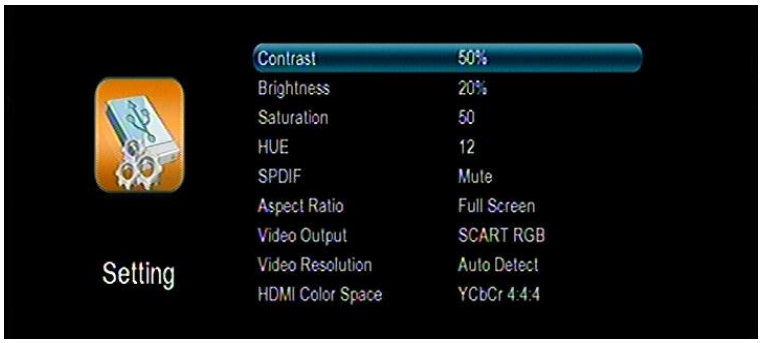
2.3. Channel Setup you can easily set your booting channel option from this menu. Also you can define to open set top box on tv or radio channel.

Preference (Setting)

3.1 Preference This easy to use function for change of your language, audio and subtitle menus. You can easily set your OSD language and also preferred optional languages. Hard Hearing function for automatically show subtitle on supported channels.

Menu Languages to select the preferred language by using "CH" buttons.

3.2 Display setting with system menu, you can set whatever you want the features and specifications of your STB to be most suitable for your watching programs.



3.3 Ethernet Config

We have four type of link choose

3.3.1 wire network

most receivers have wire network cable RG 45 (LAN Cable)

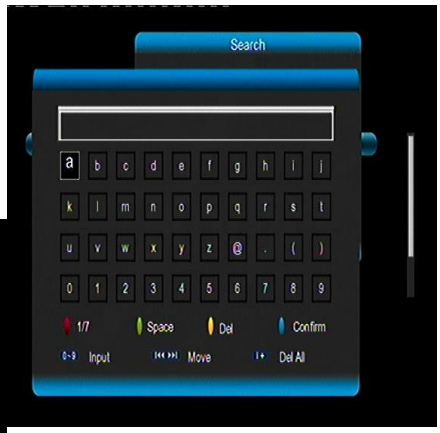
if your choose this link direct connect LAN between receiver and cable

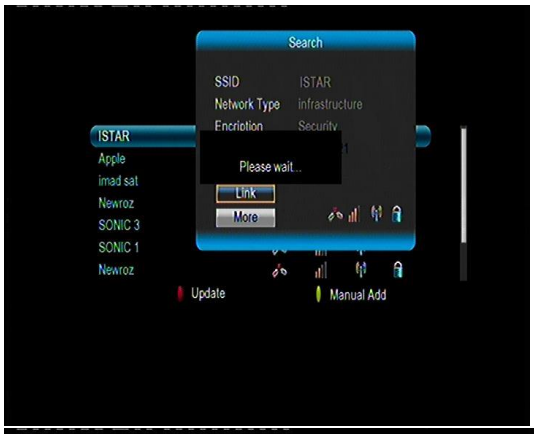
3.3.2 WIFI Network

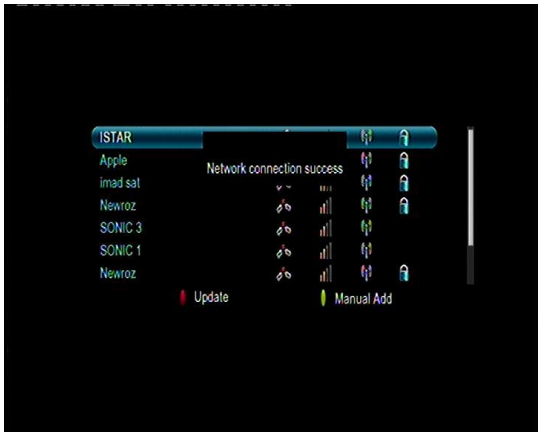
Wireless network is connecting internet with receiver by using WIFI network

Search WIFI find your user WIFI click on it type your password, check auto link box and

link wifi with receiver







3.3.3 3G network

Connect your internet 3G network with receiver and search it and select mode (manual, user or auto) then link between them

3.3.4 GPRS Network

GPRS network using for sim Card and depend on telecommunication network

There are two types of GPRS internal external

Internal: X6000, X60000 MEGA, X70000

External all models supporting it

3.4 Timer setting there are total 10 Timers for you to arrange your program and in order not to miss your favorite program.

Using the "Vol" and "CH" buttons to select the preferred figures, and press "OK" button to set the different Timers, you can also set the preferred Power On channel in TV or Radio mode.

Timer Number from 1 to 9, you can set total 10 different Timers

Timer Set To open or close each Timer, if the Timer Set is off, then you can not continue to set Timer.

Timer Control There are total 4 types of Timer type: Start time only; Stop time only; Both on.

3.5 Child Lock To prevent the unauthorized Accessing of your STB, you can set the Parental control password to you receiver. (Default password: 0000)

unauthorized adjusting of system settings. Parental Rating: You can define to verify authorization lvl between 0 to 18. You can also change the password by input numeric key for NEW Password, and then repeat again to VERIFY Password.

3.6 Date Time Setting To set the local time and date to your STB, then save it.

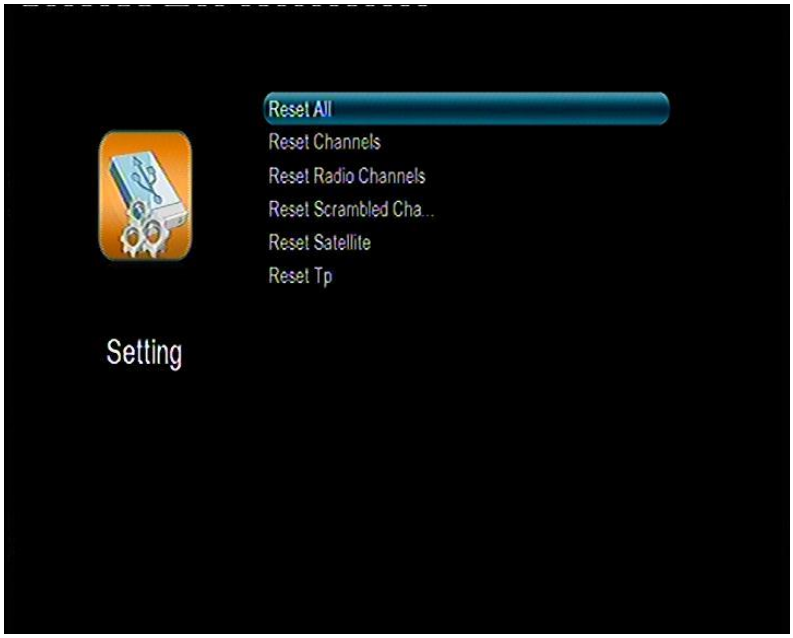
Date Time Mode Choose the format to display the Date Time. Time Zone Choose the time zone of your country belong to. Summer Time If you set summer time to "ON", then your local time should add one hour more.

Dale -Done

3.7 Mobile RCU Control: by mobile server name Sunplus product working by typing password on it

3.8 Factory Reset to default the factory settings, by press master password after then it should be erased all channels and parameters, and press "OK" button to proceed.

In here factoring reset by choice

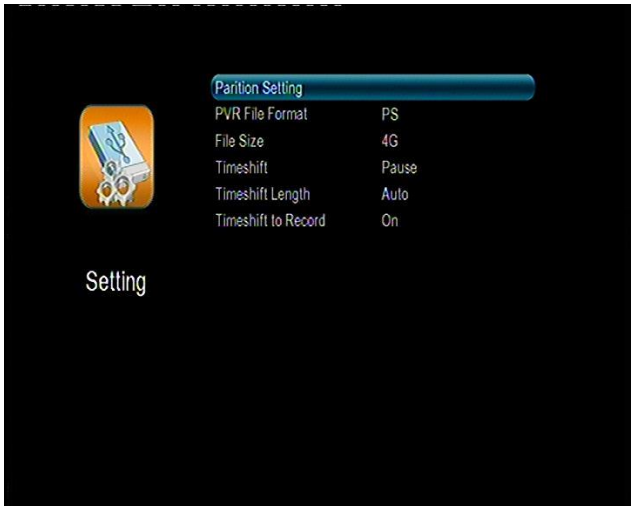


3.9 Multi Media

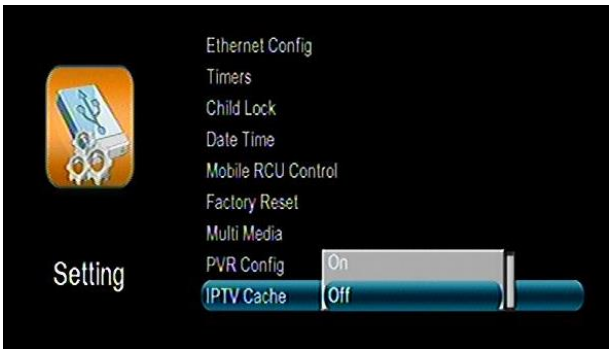
Select format and language subtitle E-book Music effect option

3.10 PVR Config

Save and record video/audio its easy just pressing on record bottom on RCU in here just option setting time shift or formatting video and file size



3.11 IPTV Cache Turn off/on between IPTV Cache use it for playback or time shift on IPTV for 15 seconds it using for who have bad internet when some time IPTV have a buffering turn it on for saving 15 seconds on IPTV



3.12 HTTP Update Detect

Option for upgrading software of Every Boot showing message box and asking to upgrade online software or not for new version

Setting

SPDF: To open or close digital audio output Aspect Ratio: You can define your screen to the tv depends on video resolution Video Output: To set your outputs ScartRBG, ScartCVBS, SVideo or Yuv Video Resolution: To set your video outputs between 480i to 1080p HDM1 Color Space: To set your hdmi outputs for specific television with regular settings HDM1 Color: To set your hdmi outputs for specific cables to connect to television

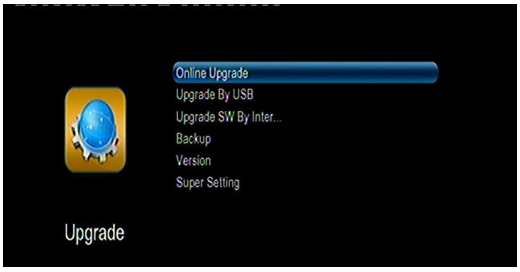
A/V output setting To set the basic screen and output specifications of your STB. You can find the optional settings behind,

Contrast: To set your contrast for best screen viewing

Brightness: To set your brightness for best screen color.

Display Setting

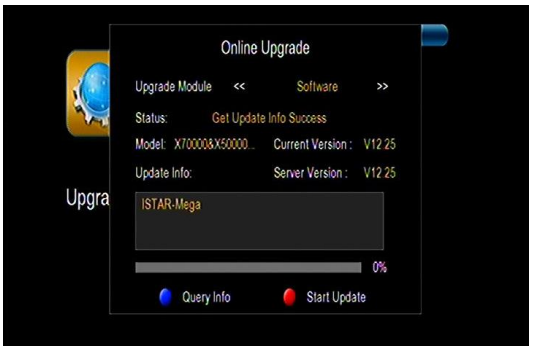
4 Upgrade



Here we have two type of OSD upgrading

It should be the first thing after updating to set factory default. 2 different update mode you should be use;

4.1 Online Upgrade

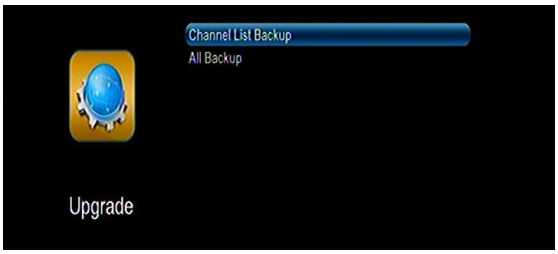


In online Upgrade when your receiver is connected with internet
You can select between Software and Database on Upgrade Module by VOL +/-
Here you have model of receiver and Update info show last update information
And Current Version is your receiver OSD version
Server Version in last version on server
By pressing on Red Bottom start updating to last software on server

4.2 Upgrade by USB

Here you can upgrade OSD and Database manual way by using USB (Flash Memory) you can find software or channel list on website or online by using PC then insert file without .zip or .rar extract it to filename.bin put on USB, press upgrade by USB

4.3 Backup



In Backup file you have two choice first channels list back up here back up database to USB and you can use it for another receiver same model IMPORTANT!!
Backup all here you can backup software and channels list in one file to USB and you can use it for another receiver same model IMPORTANT!!

4.4 Version Display this STB system information, such as software version, Hardware Info, MAC Address Date and so on.

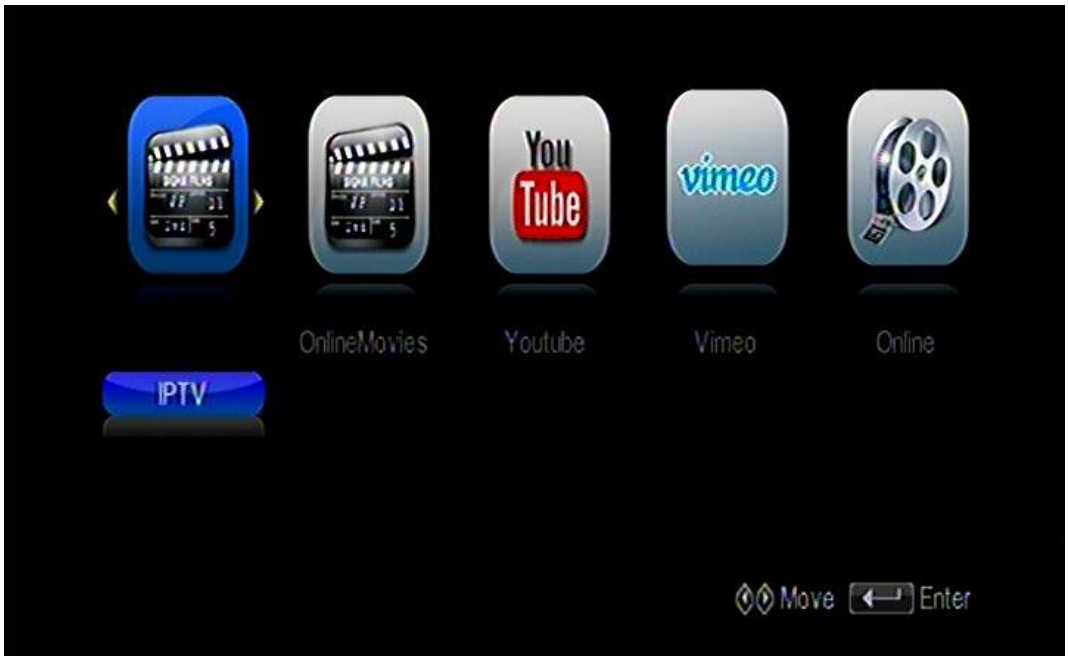
4.5 Super Setting
Most important part on receiver.

Media Center

5. Media Center Media Center menu on the device with internet connection has gained a lot of functions. This is strictly an internet connection is needed to operate the functions. This one also adds value to the device functions. You can easily get access to highly effective functions and also set your configuration of the pvr and media viewing. If you want to upgrade your stb, you can use ftp functions to download latest firmware.

Media Center

5.1 Media Center This sub menu includes most important functions with internet connections. You can get a connection direct weather forecast or you can download movie and games for enjoy. You can read your newspaper with your defined rss feeds or check the position of somewhere with google map functions or you can check online video there all functions on it online movies one of important function on istar receiver here you can watch all movies in all language and IPTV its internet protocol TV its copywriter by istar subscriber more than 700 channels on free and scrambled. These are only for beginning add-ons and also you can add more functions at the feature.



5.1.1 Movie Go to movie menu, choose path to video files, select one and press "Play" or "OK" button to start full screen play. Press "Exit" or "Stop" to stop and back to movie menu.

Format supported AVI, VOB, MPG, DAT, FLV, DIVX, REAL VIDEO, MKV Backward and forward Press "Previous"/"Forward" to play backward/forward at max x16 speed. Skip Press "Previous"/"Next" button, when playing, to skip to play previous/next video file. Pause Press "Pause" to freeze playing, and "Play" to resume.

Media Center

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

Format supported MP3, WMA, REAL AUDIO Backward and forward Press "Previous"/"Forward" to play backward/forward at max x20 speed. Skip Press "Previous" or "Next" button, when playing, to skip to play previous or next music file. Pause Press "Pause" to freeze music playing, and "Play" to resume.

5.1.3 Photos go to photos menu, choose path to photo files, for the picture selected, there is preview in left side, and use "OK" button to full screen display. Press "Exit" or "Stop" to stop and back to photos menu.

Format supported JPG, PNG Thumbnail Preview of the pictures Skip When display the picture in full screen, use "previous" /"next" buttons to skip to display previous/next picture. Slide play

when in full screen display, use "play" to start slide play. Use "pause" to stop, "stop" or "Exit" to quit full screen and back to picture menu.

5.1.4 PVR Manager Record favorite TV program to USB device, and review it at any time in future. Please read the warning notes about the how to use pvr equipment, end of the user manual.

Partition Select 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 or TS.

5.1.5 Disk Manager You can change the all parameters of the usb device from disk manager menu. Change your disk types or modify details of the files.

Move/copy Copy or move of your contents to another location. Rename of your contents and files. Delete/Delete All Delete separate files one by one or delete all files in the folder.

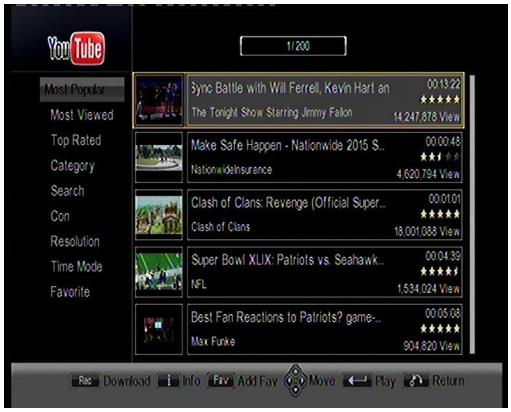
5.2 Media Center Network

5.2.1 IPTV internet protocol TV its view all popular channels around world without dish just by internet its subscribe more than 700 channels

5.2.2 Online Movies its online film view most popular US Box office movies and many other languages English, Russian, Arabic, Turkish, Persian and Kurdish

There is all category Action, Cartoon, Drama, Documentary, Comedy, Sci-Fi and Romance

5.2.3 YouTube is one of the most popular web portals in the world. Allows users to submit videos and wade through the massive video section by searching for keywords.



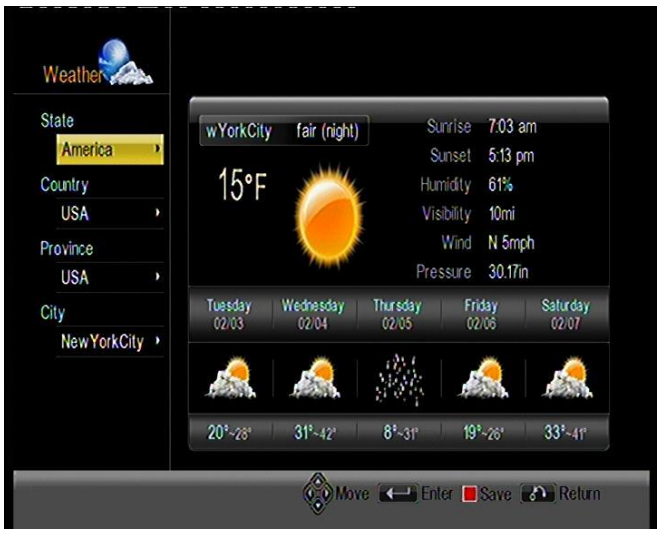
5.2.4 Ebook New generation book reader is inside of your box. You download your electronic book then select and read it. Format supported TXT

5.2.5 News Now every television as an news agency. It was not easy at all to access current news information.

5.2.6 Photo Sites all the photos on your TV now. The popular applications in the Internet, one-touch access to photos on Picasso, Flickr and Yahoo.

5.2.7 Google Maps Now you need never to call your destination address, or route. The most popular destination from the map before leaving the house with a view viewer. Do not be on the road.

5.2.8 Weather Now to find out the weather channel news channel around the end does not need to wait. One-touch weather service. 5-day forecast as well as with visual.



5.2.9 Online Part here is show many functions for video movies and many other things

Media Center

5.3 Radio Listen to thousands of internet radio stations featuring online music in every style, including hip hop, jazz, new age, rock, classical, oldies, and more. Notice: All parameters defined in factory production.

5.4 Media Config On this menu you can configure the specific future. Only changes must be done with this menu functions.

Subtitle Code Page You can choose true subtitle language for movie, music, picture and also can change system subtitle codes.

Repeats You can choose 3 different repeat functions; On/Off/Folder continuously repeat.

BG music You can start and stop back ground music function when the slide show begins.

Multi Media

Slide Time You can configure slide time changes between 3-15 seconds.

Effect You can choose more screen showing types for slide show.

5.5 PVR Config You can configure of your pvr functionalities from this menu. You can modify the record opt-ions, size and types. You can activate time shift record functions from this menu.

PVR File Format You can select format of your records.

File Size You can select each block length for your records.

Preferred Storage You can select of your storage devices.

PVR Config

Time shift You can activate function and also record length.

Warning

WARNING

USB2.0 or USB3.0 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.

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: FAT, FAT32, NTFS 3) Speed required: 5400rpm, 7200rpm

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.

Fault Phenomenon

Power on, but no display on screen

Power on this STB, then that screen displays "No signal"

STB plays a strange sound

USB Game Become Black and White

Trouble Guide

Probably reasons j. Please carefully check the power plug, to see it is in socket of wall or not? Is power interrupted?

Is the aerial install correct?

LNB input is not connect

The transmit station turns off

The sky wave disturbs the device

The program setups are incorrect

Due to the channel contain more audio tracks or audio languages The TV color sysem setting is not same as STB TV type

Resolve Put firmly the power plug to the socket on the wall.

Reinstall the aerial and calibrate it Connect the LNB Attempt until the signal coming again

Attempt again later

Set the proper parameters of received program in the system settings menu

User can use the "Audio" button on the RCU to select the correct audio track or audio languages 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 support 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, 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) Downconverter A low noise microwave amplifier and converter which downconverts 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.