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Important Safety Instruction

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN!	
CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USE-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		



The symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.



The symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

WARNING:
TO PREVENT FIRE OR SHOCK HAZARD , DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

POWER SUPPLY :

Connect the power cord to a 120 VAC 60 Hz outlet. This unit is equipped with a polarized plug. If you have difficulty inserting the plug, turn it over and reinsert it . if the unit will not be used for a long time, disconnect the AC plug from the AC outlet.

NOTE:

Before plugging the power cord into an AC outlet, make sure that all the the connections have been made.

malata W A N L I D A G R O U P C O . , L T D .

Important Safety Instruction

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 13) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 14) Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- 15) **Splashing**
The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.



Safety Precaution

This STB has been designed and manufactured to satisfy the international safety standards. Please read the following safety precautions carefully before operating this receiver.

Main Supply:

Before operating, please check the units operating voltage is 90~250V AC 50/60Hz.

Overload:

Do not overload a wall outlet, extension cord or adapter, neither use damaged power cord or touch it with wet hand as this may result in electric shock.

Liquid:

The receiver shall not be exposed to dripping or splashing water, and that no objects filled with liquids, such as base, shall be placed on the apparatus.

Ventilation:

Keep the slots on top of the receiver uncover to allow sufficient airflow to the unit. Do not put the receiver on soft furnishings or carpets. Do not expose the receiver to direct light or do not place it near a heater or in humid conditions. Do not stack other electronic equipments on top of the receiver.

Cleaning:

Plug out the receiver from the wall outlet before cleaning. Clean the receiver by a soft cloth or mild solution of washing-up liquid (no solvents).

Connection:

Disconnect the receiver from the mains when you connect it to satellite LNB or disconnect it from LNB. Failure would possibly cause damage to the LNB.

Location:

Put the receiver indoor in order to avoid lightening, raining or sunlight.

Uncover:

Do not remove the cover, to reduce the risk of electric shock. Contact qualified and licensed service personnel to repair the receiver, or contact your dealer.

1. Reference

1.1 General Features

MPEG-2 & Fully DVB Compliant

PLL RF-Modulator UHF 21~69 with PAL B/G,I,D/K

Multi LNB Control by DiSEqC 1.0,1.2,1.3(USALS)

SCPC/MCPC Receivable from C / Ku-Band Satellites

Digital Tuner with Loop-Through

PAL/NTSC Conversion

Variable Aspect Ratio (4:3,16:9) for TV

4-digi 7-segment LED Display

RS232 Port for Updating software and Additional Information

User Friendly OSD Menu with Full Function

Installation by Easy Setup Guide

256 Colors Graphic User Interface

Easy Tuning and Network Search

Multi Language Menu (English / Italian / French / Spanish / Germany / Turkish / Arabic / Russian / Persian)

7-Days EPG (Electronic Program Guide) for On-Screen Channel Information

PIG, Small Screen Picture on EPG

PIP, Picture in Picture

Super fast 800 pages OSD Teletext Supported and VBI Teletext Inserted

8 Favorite Group and Parent Lock Function

100 Satellites, 4000 Channels and 4000 transponders

ZOOM and Multi Tlmer function

Audio Tone for Tuning signal

6 Kind of Sort function for Channels

1.2 Accessories

- Users manual
- Remote Control Unit
- A/V Cable
- Batteries

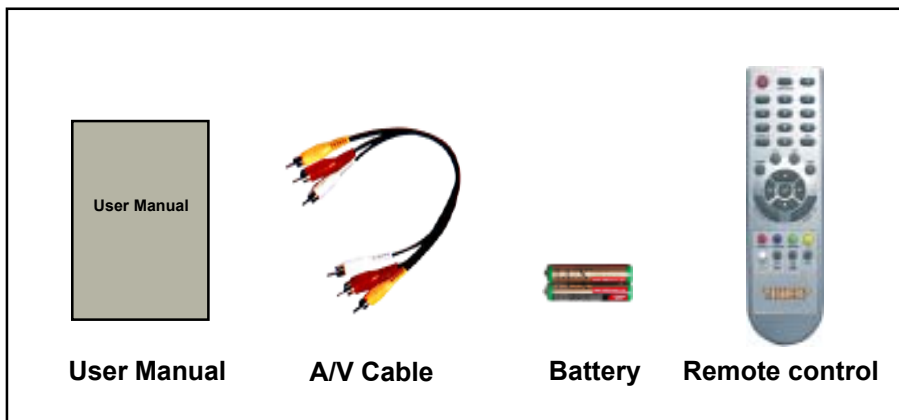


Figure 1. Accessories

2. Basic Function

2.1 Front Panel



Figure 2. Front Panel

1. Power Button

The POWER button is used to turn the power on or to make it on Standby Mode.

2. MENU Button

Activate the main menu in viewing mode, or exit all menu.

3. OK Button

Activate the highlighted sub menu in menu mode and activate the channel list in viewing mode.

4. CH+ / CH- Button

Change channel in viewing mode and move the cursor up/down in menu mode.

5. VOL+ / VOL- Button

Increase / decrease the volume in viewing mode and change settings in menu mode

6. Display (4-digi 7-segment)

4-digi displays channel information. In Standby mode the 7-segment displays local time.

7. Power LED

Power indicator

8. Lock LED

Signal Indicator

2.2 Rear Panel

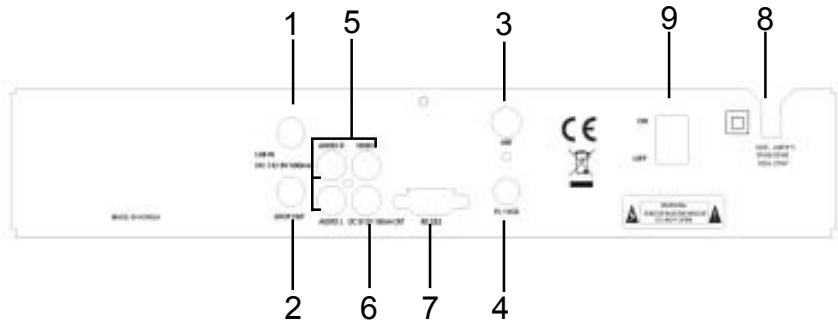


Figure 3. Rear Panel

1. LNB IN 13/18V 500mA Max

Connect the Satellite Dish LNB.

2. LOOP OUT

Output the Dish LNB IN signal.

3. ANT

Connect to TV Antenna

4. TV/VCR

Output to TV Set or VCR.

5. AUDIO, VIDEO

Connect to Audio/Video of TV. Connect Yellow to Video port, connect Red and White to Audio Right and Audio Left.

6. 0/12V

Supply 12V DC to other apparatus.

7. RS232

Connect to serial port of PC for software upgrade.

8. Electric Inlet Lead

Mains 90~240V AC (Auto selectable), 50~60Hz, Make sure to check the power spec.

9. Power

AC Power Switch.

2.3 Remote Control Unit(RCU)

You can control this receiver by this remote controller with full function.

1. POWER: 

Switch the receiver on or set it to standby mode.

2. MUTE: 

Turn the sound On/Off.

3. SAT:

Show the scanned satellite list.

4. NUMERIC KEY (0~9):

Change program or input number.

5. RECALL:

Move to the previous viewed channel.

6. TV/RADIO:

Switch between TV and RADIO.

7. EPG (Electronic Program Guide):

Show the TV/Radio program guide.

8. FAV:

To get favorite channel list you set before.

9. MENU:

Activate main menu or exit to live channel.

10.EXIT:

Exit current menu step by step.

11.CH▲/▼:

Change program.

12.VOL◀▶:

Change volume in viewing mode.

13.OK:

Confirm the highlighted menu item.

Open the program list.

14. ...VOL...

Change volume

15.Page

Page up/down on menu.



Figure 4. Remote Control Unit

16. AUDIO:

Select or change the Audio.

17.PAUSE:

Freeze the picture.

18.ZOOM:

Picture Zooming function.

19.INFO (i):

Show the information of the current channel.

press EXIT button to exit this menu.

20: F1: SLEEP

No function.

21: F2: SUB:

Showing Subtitle information if the channels contains.

22: F3: Multi picture

Activate Multi picture menu and select picture

23.TEXT:

Show the teletext content if teletext is transmitted.

3. Installation and Connection

The following diagram shows you the connections among receiver, TV, LNB and other equipment, please read this first if you are not sure about the connection, and it will guide you to the correct connection.

3.1 Connecting to TV

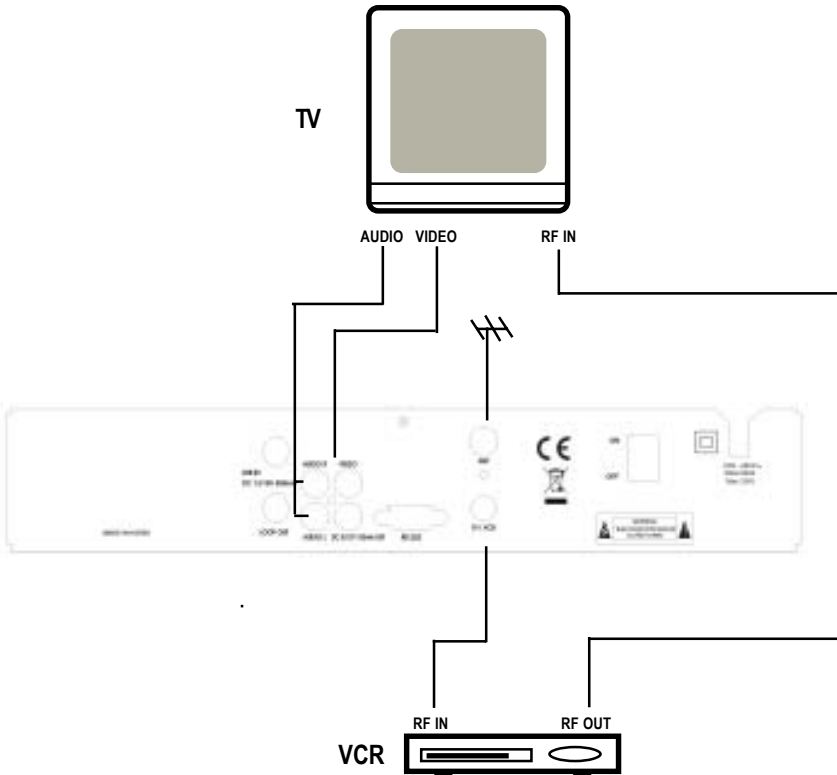


Figure 5. Connecting to TV & VCR

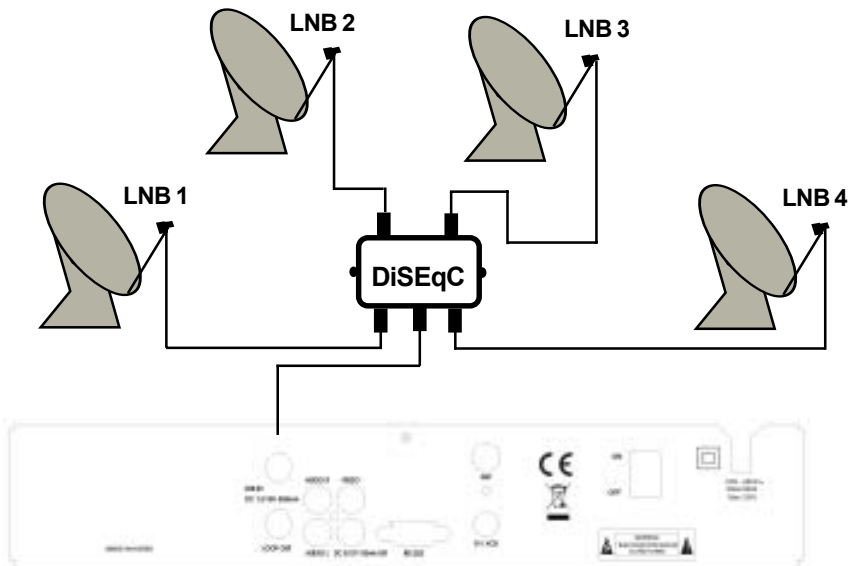


Figure 7. Connecting to Dish LNB

4. Installation and Operation

After connecting the receiver to other required equipment, turn on the receiver, it will be main menu at the first startup, you need to follow the procedure to setup your receiver to search the channel.

--Menu Guide--

--Main Menu--

Press **MENU** button to activate main menu, main menu consists of Installation, Channel Manager, System Setting, Games.



2).Use **UP/DOWN** button to select your subject and press **OK** to confirm your selection and enter that sub menu, press **EXIT** button you can return to the previous menu.

4.1. Installation

Select Installation, press **OK**, the Installation window will be displayed.



Press **OK** to Enter Antenna Setting, here you can make satellite search, multi satellites search, satellite edit, TP search, TP edit and other functions. This window shows the pre-stored satellite list, you can select satellite by **UP/DOWN** button, press **OK** to mark the satellite.



A: Antenna setup

Press right button on RCU and move to the antenna setting,here to setup the correct LNB frequency,switch Type(None,port 1... port 4,burst A,burstB,Auto).



B : LNB frequency and power

Here you need to check the LNB frequency according to your antenna,set the correct frequency or define yourself, and keep LNB power be 13V/18V.

C : Satellite Edit

C-1 : Add satellite

Press green button to add satellite,here you can input new position and other details,OK to confirm the setting,and this new satellite will be added to the end of the satellite list.



C-2 : Delete satellite

Press red button to delete satellite.You will get a warning message to ask you confirm the delete. After you confirm, all TP and channel in this satellite will be deleted.



C-3 : Rename satellite

Press yellow button to rename satellite.



D :Multi Satellites Search

After selecting satellites,you can press blue button to start search channels. During searching the TV channel and Radio channel will be listed separately.



E: Transponder list

Here select transponder list by UP/DOWN button,press OK button.Here you can **Add, Edit, Delete** transponder under the satellite you selected.



E-1: Add TP

Press green button you will get this window, and here you can input the frequency, polarization, symbol rate and FEC to add a new transponder, press OK to confirm the setting.

E-2: Delete TP

Press add key to delete the select TP with your confirm.

E-3: Search channel

After selecting transponders,you can press blue button to start saerch channels.Dring searching the TV channel and Radio channel will be listed separately.

E-4: Edit PID

Press YELLOW key to enter PID menu, here you can Add, Delete Rename a channel.

E-4.1 Add PID

Press green button, you can add one channel by inputting the PID.

E-4.2: Rename

You can press yellow button to rename the selected channel.



E-4.3: delete

Press the red button to delete the selected channel .

F: Motorised System

If you connect receiver to DiSEqC1.2 or DiSEqC1.3 antenna, set Motorised system to DiSEqC1.2 or USALS, Here press **OK** button to enter motor system.



➤ Satellite

Select the correct satellite what you want to search.

➤ Select the correct TP in this satellite to detect the signal when motor is moving.

➤ **Position Auto** To Drive the dish until find the strong signal.

➤ Continuously Move

Push </> button, the dish will be motorised to West / East to search the best signal, release the button will stop the moving.

➤ Step Size

Set the moving step.

➤ Move Steps

Move East or West step by step.

➤ Limit Set

Disable or enable West limit or East limit by pressing OK.

➤ Save Position

Press **OK** button to save the current position you searched.



➤ Command Type

Save Position: Save the current position.

Go to Position: Press **OK** button to move the dish to the stored position.

Go to Reference: Press **OK** button to move the dish to reference 0 position.

Go to X.X (9.9): If you use **USALS** and select the **Motor Mode to USALS**, here one more option you can move the dish to exact position of the satellite.

Note: Before you use **USALS**, you should go to Main Menu→System Setting→USALS Setup to set you local position firstly.

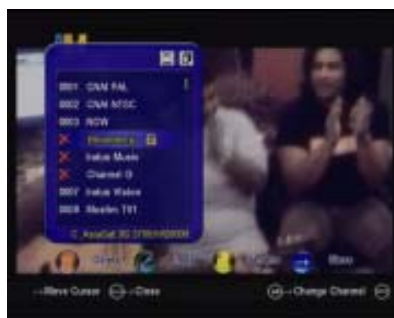
4.2. Channel Manager

Press **Channel Manager** in the main menu, you will get this window, here you can edit TV channels and Radio channels, sort channels and upgrade channels via SDX.



A: Edit Channels

Select Edit channel, you will go to the channel edit menu. Here you can Delete, Move, Rename or Lock the channels.



B: Edit Favorite

Enter Edit Favorites Menu, you can set 8 ground favorites. You can scroll the favorites group by LEFT and RIGHT key, and you can set the favorite by select the RED/GREEN/YELLOW/BLUE key.



C: Parental Control

Here to setup your easy to remember, if you forget this password, please contact with your dealer for assistance. Also you can select some menu entrance to be locked by password.



D: Timer Adjust

Here you can set Timer, Event Timer and Sleep Timer.

D-1. Timer Setup

Here to set the timer mode, time zone and summer time if needed according to your region.



c. Event Timer

Here you can set your favorite channel to begin broadcasting at future time you set, including both TV and Radio, you can add, edit and delete the event you set. Note: You can add 8 groups event timer.



Timer Mode: <Auto> Auto detect timer from EPG time

<Manual> Set the time by manual.

Time zone: Select you the Time zone from the time difference.

Summer Time: If you region need summer time to correct the current time, please make it ON.

Source: <TV> Select channel from TV list

<RADIO> Select channel from Radio list

Channel: Select the channel from channel list

Date: Start Date you want to active the timer

Start/Stop: Set Start and Stop time

Repeat: <1X> only one time <Day> Repeat every day. <1 Week> Repeat the channel 1 week. <1-5> Repeat the channel from Monday to Friday. <6-7> Repeat the channel from Saturday to Sunday.

c. Sleep Timer

Here you can set Sleep timer to automatically switch off the receiver.



E: Factory Default

You can choose reset type, <ALL, Channel list, only Radio list, only Scramble channel>. If you choose ALL, all the previous setting will be erased, such as parental code, favorite channel etc...



4.3. System Setting

Select System Setting, you can get this windows.



A: System

You can setup the menu language, audio language, RF, according to the standard of your country.



B: OSD

Here you can set some OSD options. Such as Menu Color, Transparency, Timer out, and TV system, 4:3 and 16:9.



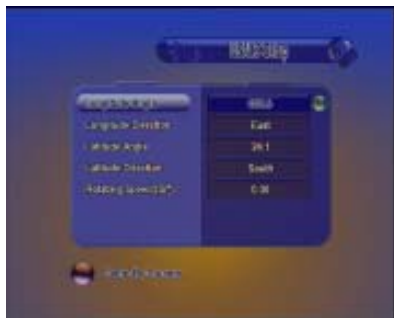
C: Update Via SatcoDX

If you have subscription to TELE-Satellite, then you can use this function to upgrade the channel data by RS232 through the computer.



D: USALS Setup

If you use USALS, you have to setup you Local parameters.



E: About STB

Here is some information about this STB, including software version, hardware version Loader version, you need to submit these information to your dealer if you need service from them.



4.4. Games

Games are available in this S/W



4.5. Other Useful Information

This will guide you on how to use general info while watching TV program or listening Radio program.

SET

Press SAT button on the remote control, you will get this menu which contains the satellites you searched and stored, select one satellite and press OK, all channels will be listed under that satellite you selected.



Channel List-OK

In viewing mode press OK button and you will get this window. Press Red, Green, Yellow and Blue button to select different category.



RECALL:

Press recall button you will get the viewing history of last 16.



TV/RADIO:

In this window you can select channel and delete/undelete channel, rename channel, sort channel, move channel, lock channel, skip channel, set favor channel.

Select Channel Manager, you will get this window.



EPG:

Press EPG button on remote control, you can get the electronic program guide of seven days if available.



FAV:

In viewing mode, you can get the favorite channel group by pressing **FAV**, press red button to change category



AUDIO:

In viewing mode press AUDIO button and you will get a menu, you can set the Audio mode here and change the audio mode, Stereo, Left, Right.



PAUSE:

Freeze the picture.



ZOOM:

Picture Zooming function.



i:

In the viewing mode when you press **INFO** button, the info bar will pop up, it contains satellite and channel information, detailed EPG info will display in the menu if press INFO again.



F2:SUB

Showing Subtitle information if the channels contains.

F3: Multi picture

In viewing mode ,press F3 you will get the multi picture selection ,select one and press ok ,multi picture will be displayed. Move up/ down, left/right to select channel.press F3 again to get that selected channelpop out and it is living ,press ok to display it in full screen or exit to select other channel.



TXT:

Show the teletext content if teletextis transmitted.



5. Additional Information

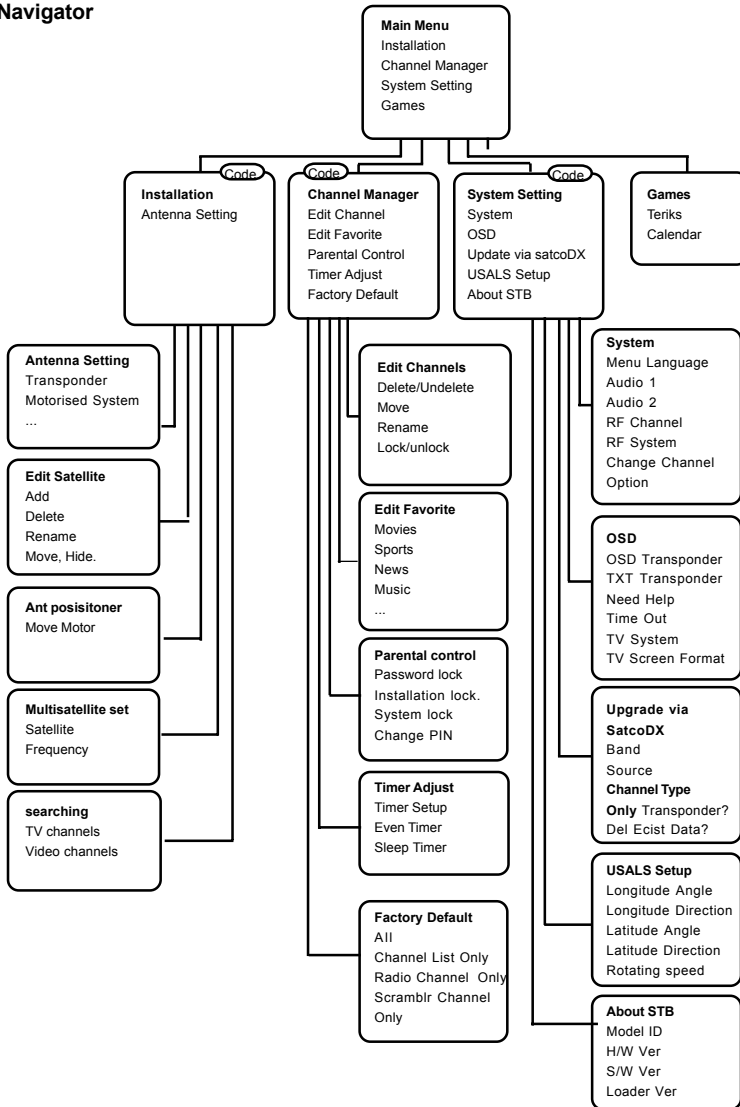
5.1 Problem Solving

You might meet abnormal working of this STB with various reasons, check the following which may help you.

Problem	Possible causes	What to do
LED on the front panel fail to light up/is not lit.	Mains supply cable is not connected.	Check if the mains supply cable is plugged into the power socket.
No picture or sound.	Satellite dish is not aiming to satellite accurately. No signal or weak signal. The LNB is faulty. The cable is faulty.	Adjust the dish. Check the signal strength indicator in one of the channel search submenus. Check the cable connections,LNB and other equipment connected to LNB & receiver, or adjust dish. Replace the LNB. Replace the cable.
Bad picture/blocking error.	Satellite dish is not aiming to the satellite accurately Signal too strong. Satellite dish is too small. LNB noise factor too high. The LNB is faulty.	Adjust the dish. Connect a attenuator to LNB input. Change to a larger dish. Change LNB with lower noise factor. Replace the LNB.
No startup menu on screen after turning on STB for the first time.	The system is connected by SCARTcables and the TV is not in AV/EXTmode.	Switch the TV to the appropriate AV input.
The remote control is not working.	Battery exhausted. Remote control is not aimed correctly STB is in standby mode.	Change the batteries (both). Aim the remote control at the STB. Check that nothing blocks the front panel. Check if LED indicator on the front panel is showing the time, press the power button to switch off standby mode.
You have forgotten your password.		Contact the dealer or Service Provider. They will help you set it up again.
Poor picture quality orLess channels in scanning.	Low LNB power or singal loss in cable.	Change the LNB power to 14V/19V in Antenna setup menu.

5.2 Menu Screen Structure

Menu Navigator



5.3 Glossary

Antenna

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

DiSEqC

DiSEqC(Digital Satellite Equipment Control)system, it is a communication bus between satellite receivers and peripheral equipment using only the existing coaxial cable.

DVB

The Digital Video Broadcast group was created to establish a technical framework for the introduction of digital video broadcasting systems.

LNB (low-noise block converter) or LNBF

An electronic unit mounted on the satellite dish. It receives the signals reflected by the dish and converts them to signals that can be used by the digital satellite receiver.

GHz

The prefix giga means milliard, and Hertz means cycles per second. Signals in the GHz range are often called microwaves.

MHz

The prefix mega means million, and Hertz means cycles per second.

MPEG

Moving Picture Experts Group. Established by the International Standards Organisation to provide the basis for a picture coding and compression system.

Forward Error Correction(FEC)

A system of error control for data transmission.

PID(Packet Identifier)

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

Polarisation

Polarisation allows several programmes to be fit into the same frequency band. The signals from a satellite are transmitted either with linear (vertical or horizontal) polarisation or circular (right or left) polarisation.

QPSK(Quaternary Phase Shift Keying)

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

Transponder

An automatic device that receives, amplifies and retransmits a signal on a different frequency.

Symbol rate

Speed of the digital transmission

RF

Radio frequency (known as HF in some countries).

RGB

Red, Green, Blue. Colour signals are routed in separate cables in order to provide a high quality TV picture.

Scrambled TV programme

Some TV programmes are transmitted in scrambled form.

SERIAL RS 232

A serial communication standard data port.

S/PDIF

Sony/Philips Digital Interface Format. Digital audio output.

RCA

Coaxial connector used to connect the receiver to an external amplifier.

