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Notice

Read this manual carefully and make sure you understand the provided instructions. For your safety, check what the result each action will be.

Warnings, Cautions and Notes

Throughout the whole manual, pay special attention to the following marks that indicate hazardous situations.



Caution

Indicates a situation which, if not avoided, could damage the equipment or apparatus.



Warnings

Indicates a hazardous situation which, if not avoided, could result in serious injury.



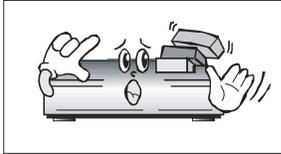
Note

Indicates additional information to the user to make the user aware of possible problems and information of any importance to help the user to understand, to use and to maintain the installation.

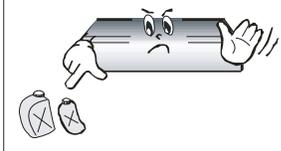
Safety Information

This digital satellite receiver has been manufactured to comply with international safety standards. Please read the following safety precautions carefully.

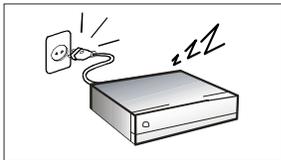
Safety Instructions and Precautions



Avoid placing heavy things and blocking ventilation passage. (Passage blocking can cause fire)



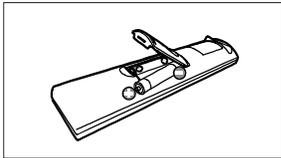
Avoid scrubbing the surface with Benzene or Volatile gasoline. Color can be damaged.



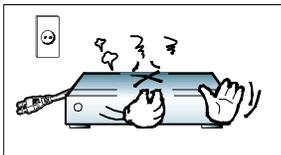
Do not leave your receiver in standby mode for a long time (e.g., when you leave home for a holiday), unplug the receiver from the main power source.



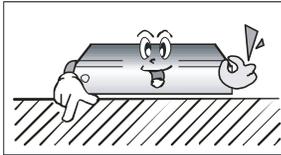
Avoid dropping and damaging Remote Control Unit.



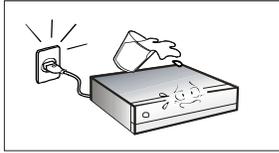
Remove the batteries and store them in a cool dry place, if you won't be using the remote controller for a longtime. Never expose the remote controller's batteries to excessive heat to avoid an explosion or a fire.



In case of overheating, smoking, burning smell or any other damage, unplug the receiver from main power source.



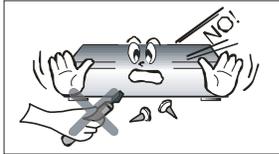
Avoid place the set on slippery and slant surface.



The receiver's main powered equipment must not be exposed by dripping or splashing water or any liquid materials that can cause electric shock, fire and other hazardous damage of the receiver.



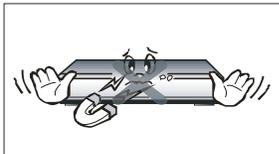
Clear off the dust. Dust or Metallic particles inside the set can cause fire and electric shock.



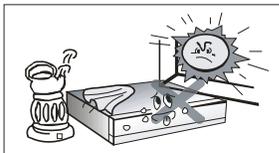
Avoid dissembling and assembling. Do not open the set.



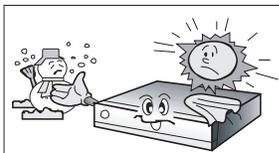
Do not snatch the cable to plug out.
Do not move the set while power cord is plugged in.



Keep the distance from Magnetic items and Audio Speaker.



Place the set with the good ventilation and away from the direct sunlight and humidity.



Avoid the temperature of over 30C and below 5C.

1. Before You Begin

1.1 Features

- Digital Satellite Receiver for High Definition TV. (HD-PVR Ready)
- Resolution HDMI:1080p, 1080i, 720p, 576p and 576i. (Upscaling for PAL transmissions)
- 2x USB 2.0 connections for external USB storages
- Main switch for fully shut down the receiver.
- Connectors: HDMI1.2, Audio/Video 3x RCA, S/PDIF.
- 100Mbit LAN connection for data transfer to PC (OPTIONAL)
Protocol : TCP, UDP, IP, ARP, ICMP, MAC. (IGMP, PPPoE)
- Support for DiSEqC 1.0 (multiswitch), DiSEqC 1.2/USALS (motorised system),
DiSEqC 1.3 and Unicable. (one cable solution)
- First install guide for fast and easy setup.
- Multi-language menu.
- Integrated picture viewer / media player.
- TimeShift function.
- Electronic program guide (EPG) for channel view up to 7 days.
- Fast teletext generator with memory for 800 pages.
- Recording timer, easy to use over EPG function.
- One main channel list and 8 favourite list, for individual configuration.
- 6000 memory places for TV and Radio channels.
- Blind Scan Supported.

1.2 Accessories

- Manual
- Remote control
- Batteries (2x AAA 1,5V)
- RCA - cable
- HDMI - cable



2. Controls and Functions

2.1 Front Panel

Item	Description
1. Power Button	Turns the receiver On/Off.
2 Menu/OK Button	Shows the Main menu in viewing mode. Activates the highlighted menu item in menu mode.
3. EXIT Button	Exit from the current menu or cancels the current progressing operation if applicable. Change the video format in viewing mode. (576i, 576P, 720P, and 1080i)
4. CH Up/Down Buttons (▲ / ▼)	Changes channels in viewing mode and moves the cursor up/down in menu mode.
5. Volume Up/Down Buttons (◀ / ▶)	Increases/ decreases the volume levels in viewing mode and changes settings in menu mode.

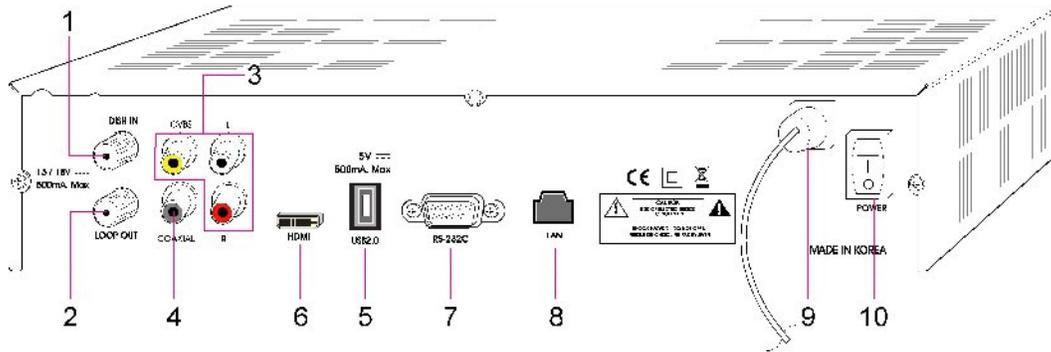
2.2 Display (4 –digit 7-segment)

The 4-digit displays channel information.

In STAND BY mode, the 7-segment displays local time.

The red LED is STAND BY indicator.

2.3 Rear Panel



Item	Description
1. DISH IN	Input Tuner 1 for digital signal from satellite reception equipment.
2. LOOP OUT	Loop Out is a output port of the DISH IN signal.
3. CVBS OUT	Using standard video cables, these jacks connect CVBS(Yellow).
4. COAXIAL	Output for connection to a digital amplifier.
5. USB	Back side USB connectors for external USB hard disks.
6. HDMI	Connect HDMI input of TV or PC monitor.
7. RS-232C	Connects to a Set-top box or a PC serial port.
8. LAN (OPTIONAL)	Connects to a PC for transferring files and SW download.
9. Electric Inlet Lead	90~240V AC(Auto-selectable), 50~60Hz. Make sure to check the power specification.
10. Power Cord	AC Power Switch.

2.4 Remote Control Unit

All receiver features can be controlled with the remote controller.

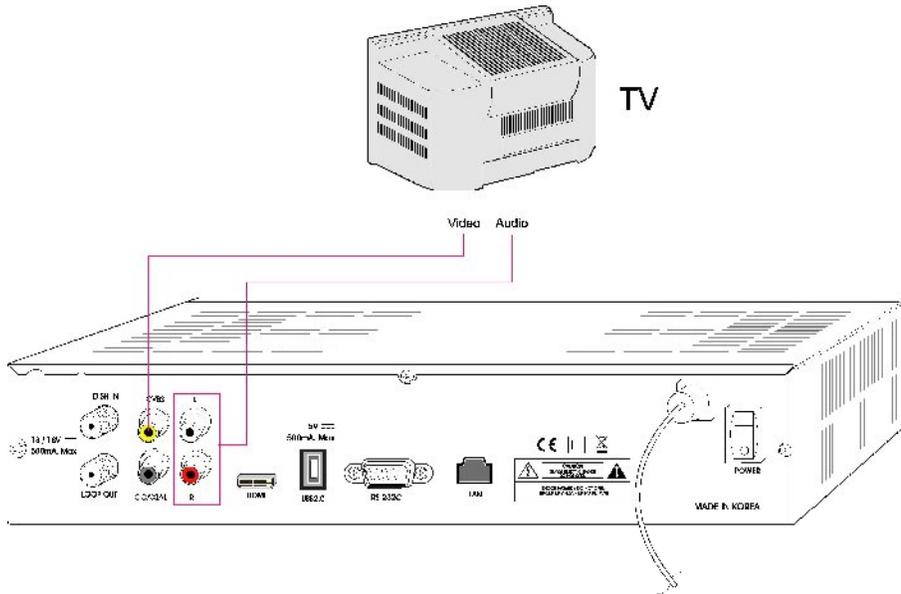
Button	Description
1. POWER	Turns the receiver On/Off.
MUTE	Turns the sound on/off.
Option	Selects the option such as Audio Language, Teletext Language, Subtitle Language and Multifeed.
A/V+	Select temporal the settings for Video and Audio format. Selection Audio: Stereo, left, right and joint. Selection Video: 4:3, 4:3 Letterbox and 16:9.
SAT/FAV	Selects the group of favorite. Show the search Satellite list.
TV/Rad	Switches between TV and Radio.
FUNC	Commands various functions in each MENU There are 'HELP' in each MENU for FUNC key use.
Sleep	You can turn the STB off after minutes set.
Video Format	Change the video format.
2. NUMERIC Buttons (0~9)	Select channels or can use as a alphabetic search key in the sorted channel lists.
Recall	Move to the previous channel.
TEXT	Activate the teletext function.
3. OK	Confirms the choices and/or selections the highlighted menu item. While watching TV or listening to Radio, press the OK button and the channel list will appear.
◀/▶ (⬅/➡)	Moves left/right or change settings in menu mode. Changes the volume level in viewing mode.
▲/▼ (⬆/⬇)	Moves up/down in menu or changes channel.
MENU	Shows the Main menu in viewing mode.
A to Z	Sorts the channels automatically in alphabetical order.
EXIT	Exit from the present menu and moves to the previous menu.
EPG	Shows the TV/Radio Channel guide.

Button	Description
4 .VOL+/-	Changes channels in viewing mode or selects other menu pages with sub-pages.
CH+/-	Changes channels in viewing mode.
INFO	Shows the information of the Banner. If some programs have a lot of EPG information in EPG, you can read next pages using this button.
RED	For Teletext or commands various functions in each MENU There are 'HELP' in each MENU for color key use.
GREEN	
YELLOW	
BLUE	
5. REC ●	Record the channel.
PLAY □	Playback the recorded files.
T. S / PAUSE 	Pause playing mode./ start TSR PLAY
PVR Info 	Display playback status bar.
REW ◀◀	Rewind playback.
STOP ■	Stop playing mode.
FF ▶▶	Fast forward playback.
PVR LIST 	Display the file list.
SLOW ▶	Playback in slow mode.
A-B 	Set the block to repeat copy and cut.
MARK 	Set the bookmark.
JUMP 	Jump to next bookmarked point.
JUMP 	Jump to previous bookmark point
MEDIA PLAY 	Display the xVid list.

3. Connections

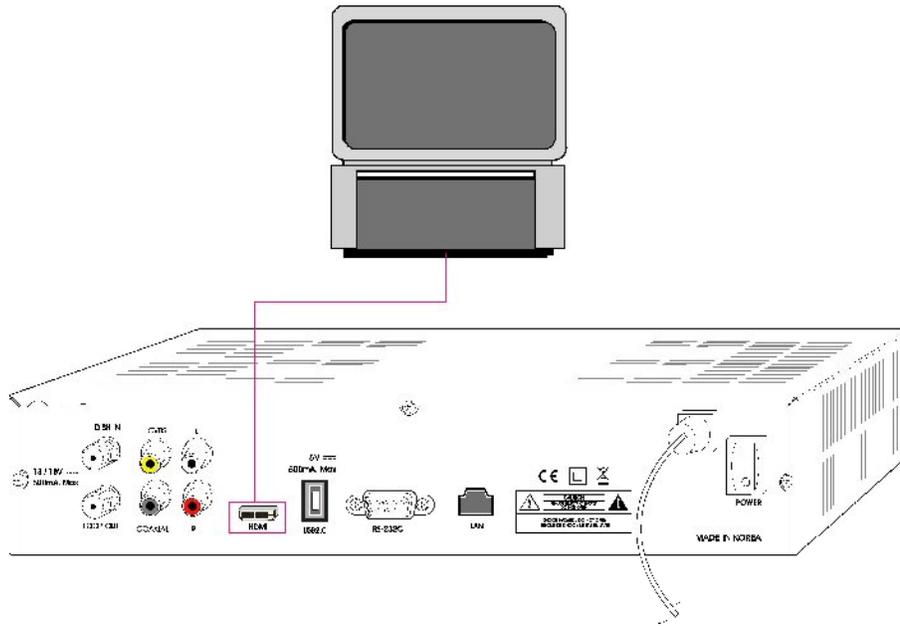
3.1 Connecting to TV

<Receiver to TV Cables >



1. Connect the Video and Audio of TV to the Video and Audio. Connect Red and White connector to Audio R and Audio L, and Yellow to Video port respectively.
2. Go to section 3.4, Connecting to Dish, then connect your dish.

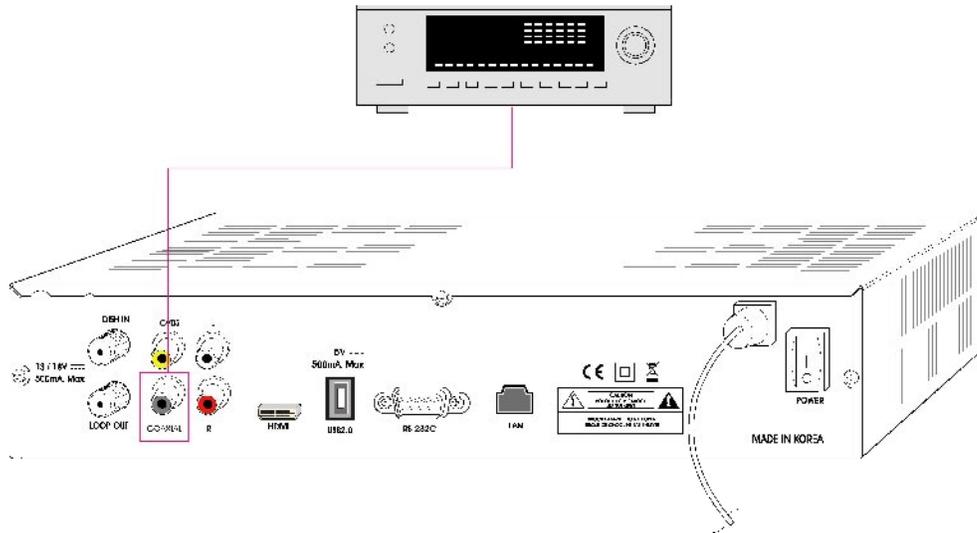
<Connecting to PC monitor or digital TV which has HDMI input port>



1. Connect STB's HDMI OUT to HDMI IN of monitor or TV.
2. Set STB's video output mode to 1080p / 1080i / 720p / 576p / 576i using 'Video Format' key of remote controller.

For the best access to HD programming at the highest available resolution, use this connection method.

<Connecting to A/V receiver (Dolby digital amplifier)>



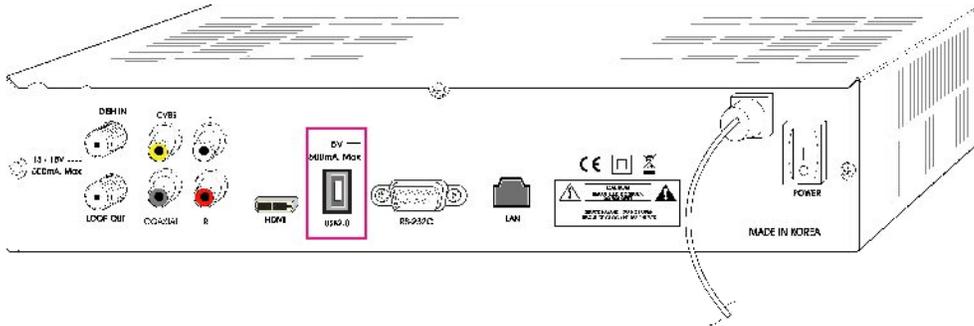
1. Connect STB's optical digital audio out to A/V receiver.
2. Go to TV Output menu and set "Dolby Digital(AC3)" to enable.

3.2 Connecting from external USB

The receiver has USB 2.0 to connect external data storage.

This can be external USB sticks, USB harddisk, and card reader with memory cards.

With the use of card readers be sure that only one card is inserted before the device is connected to the receiver. The receiver can record directly to external data sources.



3.3 Connecting receiver to PC

You can connect the receiver in two ways to your PC.

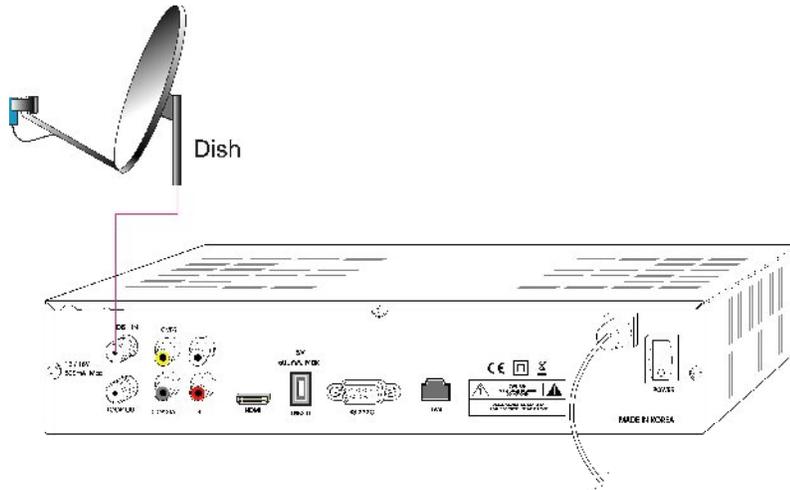
Over the serial RS232 port for software updates and over USB connector variant B.

Last one allows you to transfer files.

3.4 Connect on satellite dish

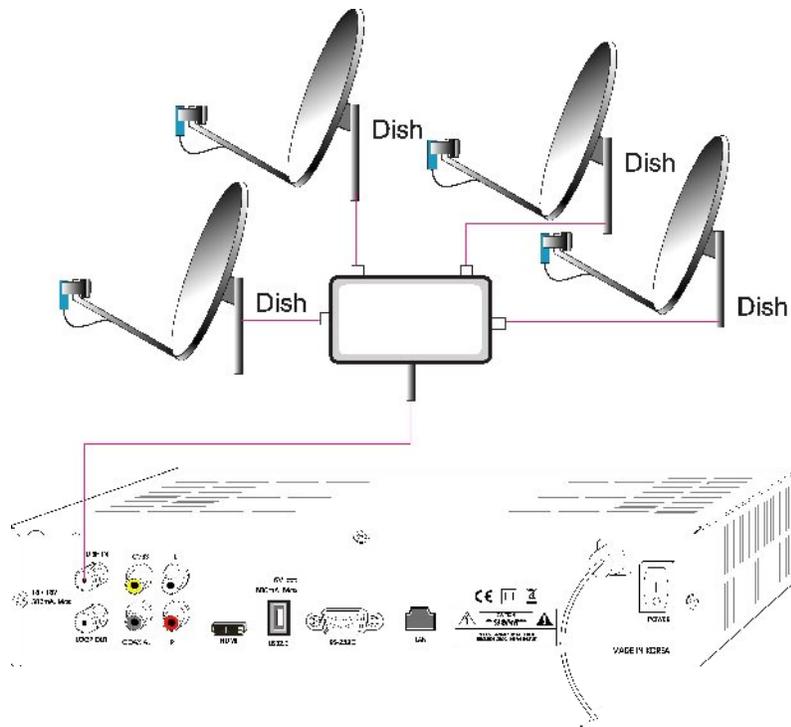
<Dish>

Connect the satellite antenna cable to DISH IN.



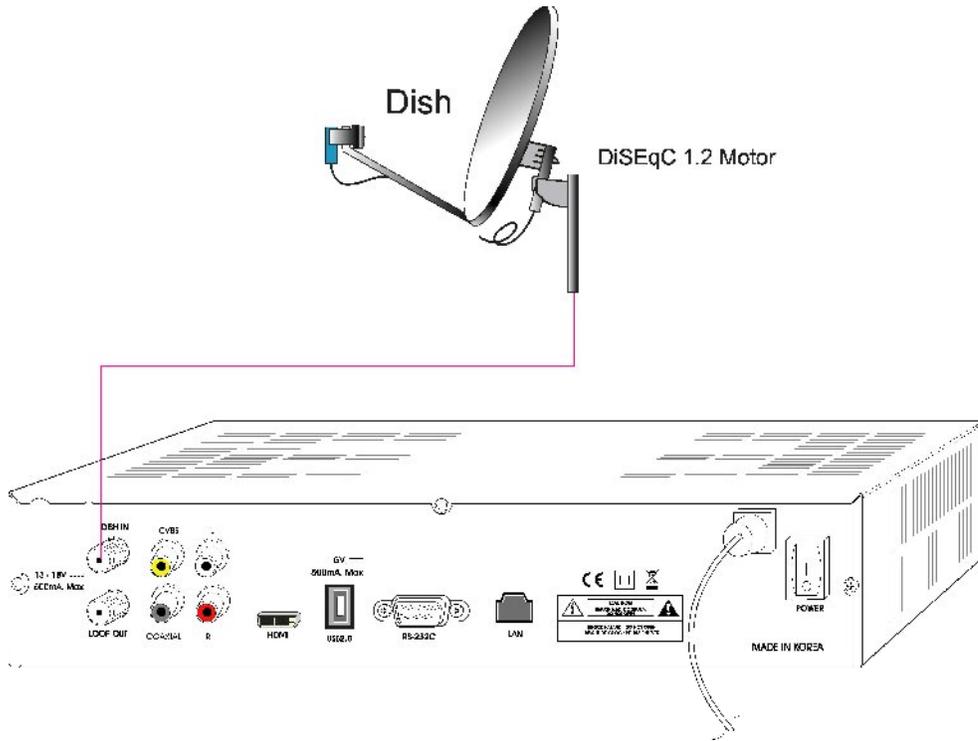
<2 Fixed Dishes Using a DiSEqC switch>

Connect the output of DiSEqC 1.0 to DISH IN of the receiver.



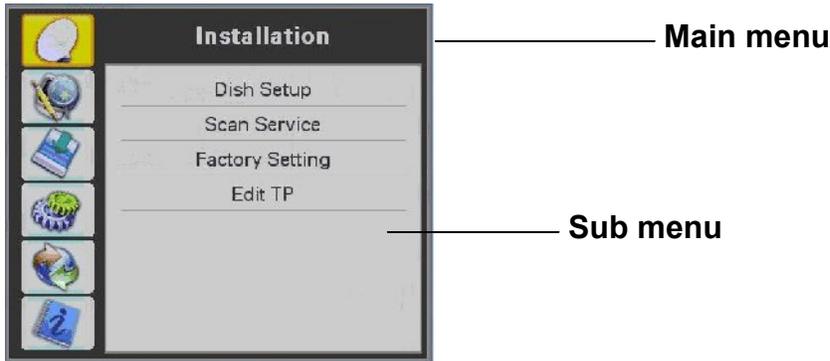
<Moved Dish Using DiSEqC 1.2>

Connect the output of DiSEqC 1.2 to DISH IN of the receiver.



4. Menu overview

4.1 How to use inside menu



- Press the menu button on the remote control for open the main menu.
- The submenu you can choose by using the buttons $\uparrow/\downarrow/\leftarrow/\rightarrow$.
- The selected sub menu will be high light.
- When you have select, press the button **OK** for open it.
- In other to go back to previous menu or leave it, use the **EXIT** button.

4.2 Help for menu

You can see the symbol at the bottom of menu.
That means you can use this button on the menu.



In this example:

- \uparrow/\downarrow Move the cursor
- \leftarrow/\rightarrow Select options or change
- OK** Save and leave
- EXIT** Exit

4.3 Menu structure

1) Installation



Dish Setup:

Selection and adjustment for satellite, transponder and LNB for channel search.

Scan Service:

Automatic search for channels without special inputs. Most recommend search.

Factory Setting:

Manual search for channels with information given by user. Set the receiver back to factory default.

Edit TP :

Delete, Edit and Add from satellite and transponder information.

2) Program



Favorite :

Favorite channel grouping.

Edit Channels:

Delete, Move, Lock and Rename channel of normal Channel.

Sorting:

Sort the stored channels by transponder, network or CAS system.

Delete:

You can delete channels, satellite and so on.

3) PVR



Reservation:

You can reserve recording to record your desired programme automatically.

PVR Setting:

General setting for PVR function and External Storage device.

HDD Information:

Display a HDD information.

Format HDD:

Erase the hard disk completely.

4) Configuration



OSD Display:

Settings for on screen display. Transparency, Screensaver. Banner display time.

TV Output:

Selection for TV / Video-output and setting for AC3 output.

Time Setting:

Adjustment for time and date.

Parental Control:

Changing for password and age rating.

Language:

Settings for language of display, audio and subtitle.

5) Other



USB Transfer:

You can transfer the software or channel data through USB device.

Channel Upload:

Transfer the channel data to other receiver or PC.

S/W Upload:

Transfer the software to second receiver or PC.

Network Setup:

Network setup(TCP/IP) and Main S/W download from server.

6) Status



Information:

Display the system information of receiver.

5. Setup the receiver

5.1 First install

You can install the receiver using First Installation for your convenience. 'First Installation' allow you to set your receiver using simple procedure.



Step 1

Select the desired language using the ▲/▼ button.



Step 2

Select the desired time offset using the ▲/▼ button.



Step 3

Select the desired satellite using the **▲/▼** button.

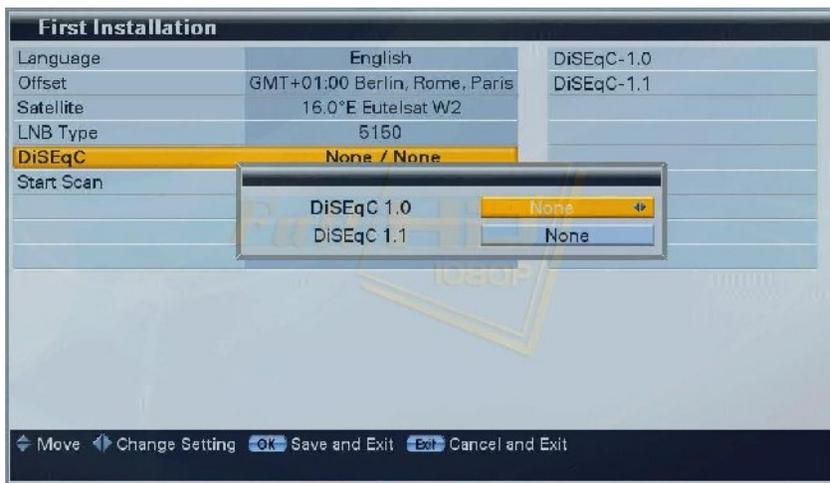
Press the **OK** button to confirm and go to the next step.



Step 4

Select the LNB Type using the **▲/▼** button.

Press the **OK** button to confirm and go to the next step.



Step 5

If you use a DiSEqC 1.0 or DiSEqC 1.1 switch, select DiSEqC option using the **▲/▼ ◀/▶** button.

Press the **OK** button to confirm and go to the next step.



Step 6

After all settings are done, press the button to start scanning.

If you want to know more detail description about each procedure, please refer to the following installation part in 5.2

Press the **OK** button to confirm and go to the next step.

Previous Step button : If you want to go to the previous step, press the **Red** button and then you can reset options.

Cancel and Exit button : If you want to skip 'First installation', press the **Exit** button.

5.2 Installation

5.2.1 Dish



In other to go to submenu press the **Menu** button to display the main menu.

Go to submenu use the ◀ / ▶ buttons.

Dish: Selection and adjustment for satellite, transponder and LNB for channel search.

Scan Service: Automatic search for channels without special inputs.
Most recommend search.
Manual search for channels with information given by user.

Factory Setting: Set the receiver back to factory default.

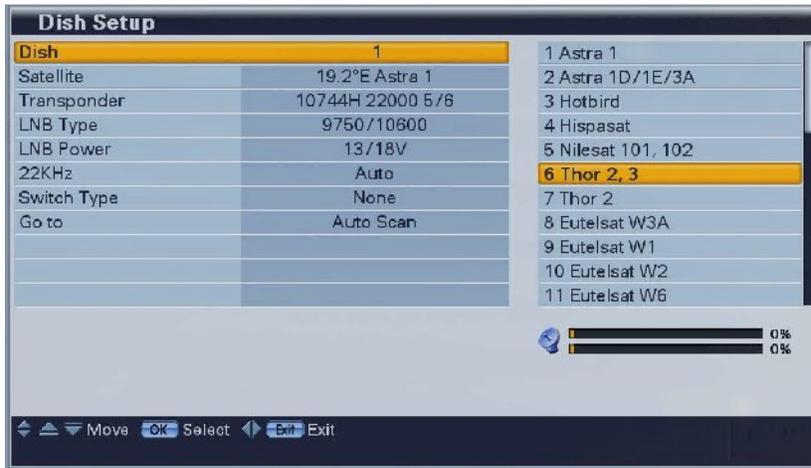
Edit TP: Delete, Edit and Add from satellite and transponder information.



Press **OK** button on the sub menu.

In next window you have to give the password.
The default password is "0000".

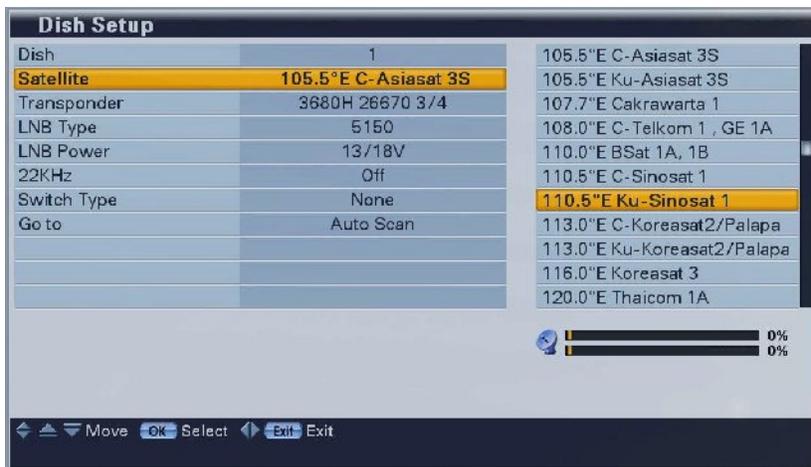
Use the ▲ / ▼ button, you can move upwards and downwards in this mode.



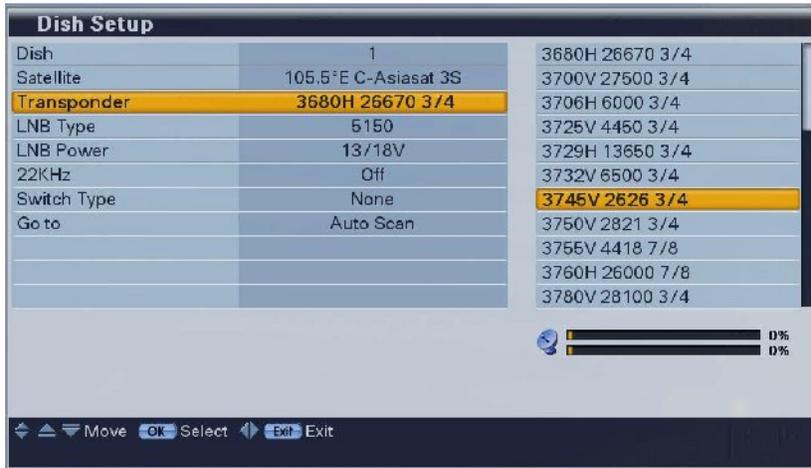
Press the ◀ / ▶ buttons, the right screen shows the pre-selected 32 satellite lists.

Select the desired satellite, and press the **OK** button. Then change the satellite column will be changed by the desired satellite name.

If you can not find the desired satellite, select any satellite and press the **OK** button.



Press the ◀ / ▶ button to watch the satellite in the pre-programmed lists. Press the **OK** button to replace the Current satellite with the selected satellite.



Press the ◀ / ▶ button, the right screen shows the transponder lists. Press the **OK** button to select other transponder.

If you select one of the alternative satellite names, the transponder list is changed automatically according to the selected satellite name.



Select the LNB Type value.

If you have selected User Single or User Dual, enter LNB frequency value directly, and press the **OK** button. If you select LNB Type value as 9750/10600, 9750/10750 or User Dual, 22KHz value is fixed to auto mode, in other case you can select a value depending on usage of 22KHz tone switch box.



Select one of the LNB Power types using the ◀ / ▶ button.

You can select LNB Power value as 13/18V normally or if the distance between dish and receiver is further than 60m, you can select LNB Power value as 14/19V.

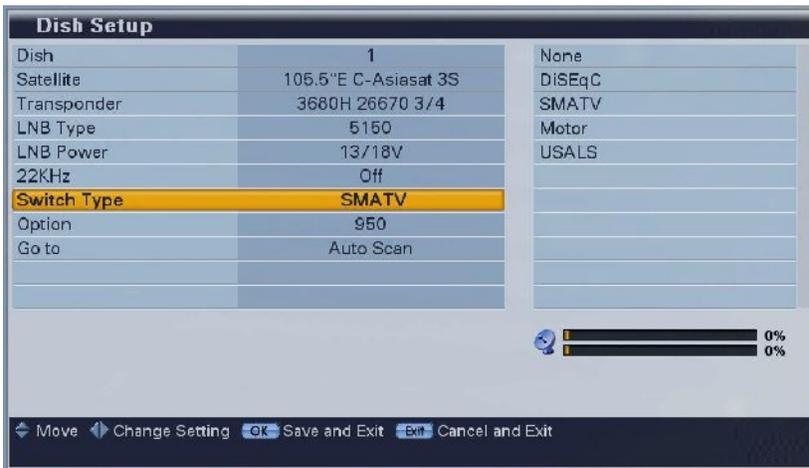
When you use UNICABLE system you have to shut down the voltage to Off.



Select Switch Type if used.

If you use a DiSEqC 1.0 and DiSEqC 1.1 switch, select DiSEqC on the Switch Type.

Select on of the DiSEqC inputs from the Option.



Select Switch Type.

If you use a DiSEqC 1.1 switch, select SMATV on the Switch Type.

Enter a value with the numeric key (950~2150).

Please ask to your installer for get the correct value.



Select Switch Type.

If you use a DiSEqC 1.2 motor, select the Motor on the Switch Type.

Change position of your Motor through the Option.



Select Switch Type.

If you use a USALS motor, select form the Switch Type.

Change position of your USALS motor through the Option.



Select Auto Scan or Manual Scan or PID Scan and then press the **OK** button.

DiSEqC 1.2 –Options

Move West-East:	Select and press ◀ / ▶ for move the motor.
Store Position:	Select and press OK for store the actual position.
Go to Position:	Select and press OK for move the motor to a stored position.
Go to Reference:	Select and press OK for move the motor to reference position 0°.
Set West-Limit:	Select and press OK for activate west limit. The motor must support this function.
Set Ost-Limit:	Select and press OK for activate east limit. The motor must support this function.
Enable Limit:	Select and press OK for activate the limit function.

Set West Limit & Set East Limit can be available with Disable Limit status.

5.2.2 Scan Service

5.2.2.1 Auto Scan

You can search the channels offered by the satellite for which your dish has been configured.



Press the buttons ◀ / ▶ .

On the right side one list with 32 pre selected satellites will be open.

Select the desired satellite, and press the **OK** button.

Then change the satellite column will be changed by the desired satellite name.

When all is made, go to the **Start Scan (with Red button)** and press the **OK** button.



The left window shows TV channels and the right window shows Radio channels during the scanning process. Black channel names are new channels downloaded to your receiver. White channel names are already existing channels.



If you press the **OK** button when scanning for channels, pop-up window appears.

When you complete scanning for channels, a similar pop-up menu appears.

If you want to save the updated channels, select **'Yes'**

5.2.2.2 Manual Scan

You can change to the specific values you want to scan.



Dish:	The target satellite for the manual scan.
Frequency:	The frequency of the transponder you want to find manually.
Polarity:	The polarity of the transponder you want to find.
Symbol rate :	The symbol rate of the transponder you want to find.
Modulation:	Select the modulation(DVB-S QPSK, DVB-S2 and DVB-S2 8PSK).
Pilot:	Only available for DVB-S2. You need for HD channels.
Code-Rate:	The code rate of the transponder you want to fine.
Scan mode:	If you did not know it, select AUTO and the receiver try it by him self. Select here what channels the receiver have to find. Free+CAS mean all channel, Free mean only channels you can receive without using one crypt system.
Service Type:	The selection of TV, Radio and TV&Radio.
Network Search:	When enable, the receiver searches for more transponders using the network index table.

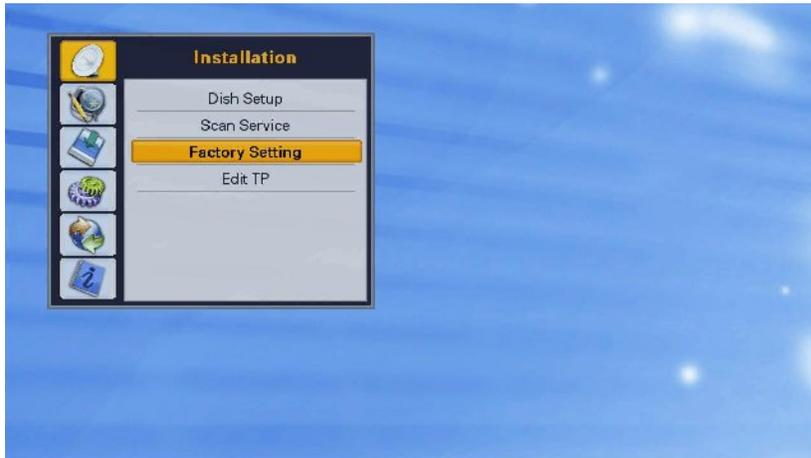
5.2.2.3 PID Scan

You can add manual one channel, when you input the PID information.



Input the values for Video-PID, Audio-PID and PCR PID with the numeric keys.

5.2.3 Factory Setting



If you want to change the set into the default values, press the **OK** button.

The following confirmation window will be reset to the primitive state like new receiver.



If you want to change the set into the default values, press the **OK** button. The following confirmation window will be reset to the primitive state like new receiver.

5.2.4 Edit TP

You can modify the entries in the transponder list.

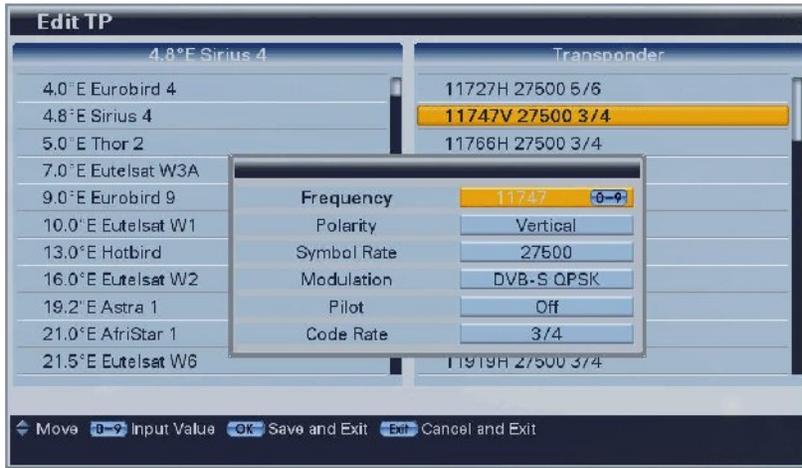


Press the **Red/Green/Yellow** button to select the satellite in the left screen or the transponder in the right screen.

Press one of the **Red/Green/Yellow** button for Add, delete or edit.

(The satellite and transponder cannot be deleted if the channels of the selected satellite have already been Downloaded.)

If you press the **OK** button, the current changing state will be saved and exit.



5.3 Program



- Favorite : Favorite channel grouping.
- Edit Channels: Delete, Move, Lock and Rename channel of normal channel.
- Sorting: Choose the channel sort type, such as by Transponder, Network, CAS.
- Delete: Delete the channels satellite and so on.

5.3.1 Favorite

You can create totally 8 favorite lists with a maximum of 100 channels in one group.

Press **OK** button, you can see the checked mark.



Rename: Press the **Yellow** button, and then a small editing name window will be displayed.

You can write each letter of the channel name using ▲/▼/◀/▶ button and the **OK** button.

After renaming is done, select Enter tab and then press the **OK** button.

Press the **Exit** button to exit the editing window without saving.

You can use color button for your convenience.



If you want to change other group or satellite, press the **Fav** button.

When you are finish, press the **Exit** button.

If changed data exist, confirm window will be displayed.

Press **OK** button for confirm your choice and close the window.



5.3.2 Edit Channel



You can move, lock, delete and rename the channel.

Move mode: Select the Move position using the ◀ / ▶ button.

Select channel you want to move using the ▲ / ▼ button. And then after go to you want to position press Yellow button.

- Lock mode: Select the Lock position using ◀ / ▶ buttons. Select the channel to be locked and press the **OK** button.
- Delete mode: Select the Delete position using ◀ / ▶ buttons. Select channel you want to delete using the ▲ / ▼ button. Press the **OK** button, checked sign will be marked on the cursor.



- **Rename:** Select the Rename position using ◀ / ▶ buttons. Select the channel to rename and press the **OK** button. And then a small editing name window will be Displayed. You can write each letter of the channel name using the ▲ / ▼ / ◀ / ▶ color button and the **OK** button. After renaming is done, select Enter tab and then press the **OK** button.

If you want to change other group or satellite, press the **Fav** button. Press the **Exit** button to save and exit.

5.3.3 Sorting



Select Sorting Type using the ◀ / ▶ button.

If you press the **OK** button current changing state will be Saved and exit.

Attention, this sorting compare your actual sorting of the channel list can not be restore. If you need back the factory default channel list you need to make one factory reset.

Transponder:

All channel will be sort by transponder frequency.

Network:

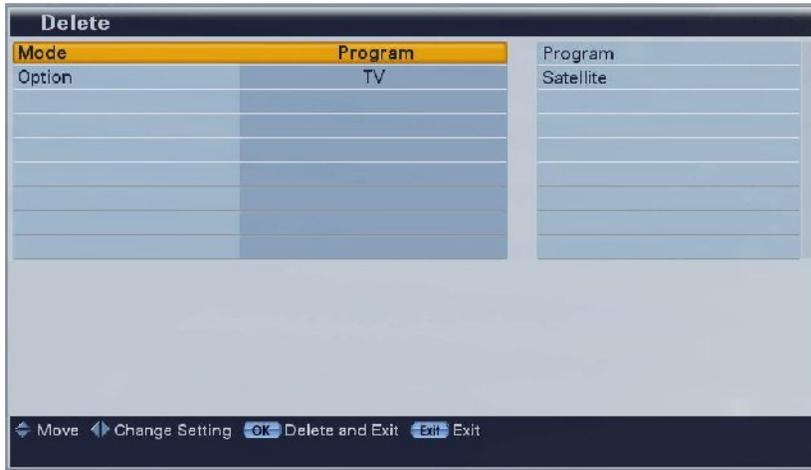
All channel will be sort by network provider.

CAS:

All channel will be sort by free and Pay-TV channels.

5.3.4 Delete

You can delete channels. You can select not only Mode such as Channel and Favorite, but also Option such as TV, Radio and etc.



Select the Mode and Option you want to delete channels using the ▲/▼/◀/▶ button.

Press the **OK** button to delete and exit.

5.4 PVR



Reservation: You can reserve recording to record your desired programme automatically.

Record Setting: General setting for PVR function and hard disk.

HDD Information: Display a HDD information.

Format HDD: Erase the hard disk completely.

5.4.1 Reservation

You can reserve a channel at your desired time. In this mode, you can reserve channels up to 50.



Now the reservation window open and you can modify the recording information.

To add more, press the **Red** button. Press the **Yellow** button to delete the reservation. After all settings are done, press the button to save and **exit**.

Once :One time recording.

(After record it will be delete from recording list automatically)

Daily : Recording will be done every day.

Weekly: Recording on working days. (Every Monday to Friday)

Weekend : Recording on weekend. (Every Saturday to Sunday)

Weekday : Recording will be repeat every week.

5.4.2 Record Setting



You can set Time shift function as Auto or Manual. And you can set Default record time.

Activated Device

When there are two external storage devices connected through both USB ports, STB controls only one device which connected earlier.

e-SATA connection has priority to USB connection and STB control one e-SATA device and one USB device at the same time.

Time shift

If Time shift is Auto, whenever user change the channel, Time shift is activated automatically.

If manual, time shift function doesn't work.

Default record time

You can set the default record time from 5 minutes to 10 hours.

JPEG slide show

You can set the JPEG slide show from 5 sec to 120 sec.

5.4.3 HDD Information



OSD Display:

Settings for on screen display. Transparency, Screensaver, Banner display time.

TV-Output:

Selection for TV- / Video-output and setting for AC3 output.

Time Setting:

Adjustment for time and date.

Parental Control:

Changing for password and age rating.

Language:

Settings for language of display, audio and subtitle.

5.5.1 OSD Display



Select the option using the ▲/▼/◀/▶ button.

If you press the OK button, current changing state will be saved and exit.

Banner display time:

The time for display the information window can be select **Hide, Always and** between 1sec and 30 sec.

Screen saver:

The screen saver protect you TV device when you see long time same content or you use Radio mode. Selection: Disable, 5, 10, 20, 30, 60, 120min.

OSD Transparency:

Select the transparency factor for the menu compare the TV picture.

Teletext Transparency:

Select the transparency factor for the teletext compare the TV picture.

5.5.2 TV Output



Select the TV output option using the ▲/▼/◀/▶ button.

If you press the **OK** button, the changed state will be saved and exit.

TV-Screen:

Select what format you will use (4:3, 4:3 Letter Box, 16:9).

Dolby Digital:

When you activate it, automatically the receiver output is switch to surround sound when the channel provides it.

Digital Audio:

Selection the format for the digital audio output.

5.5.3 Time Setting

Time Setting		
Time Mode	User Mode	TDT
Offset	GMT+01:00 Berlin, Rome, Paris	User Mode
Day light saving	Enable	
Start day	03/Last/Sun/02	
End day	10/Last/Sun/03	
Year	2009	
Month	8	
Day	10	
Hour	07	
Minute	34	

Setting current time using the ▲/▼/◀/▶ button.

If you press the **OK** button, current changing state will be saved and exit.

Time mode:

TDT (recommended) or User mode.

Offset:

Set the time difference between GMT and the local time.

Day light saving: Day light saving will work only in case of 'Enable' mode.

Start day: Day light saving start day.

End day: Day light saving end day.

The lines **Year** to **Minute** are for adjust the date and time manual.

5.5.4 Parental control



If you want to change the password, press the ◀ / ▶ button, following message requiring new password will be displayed.

Change the password into new one by numeric button.

To ensure your change, you are supposed to input a password once more.



Select your desired rating level using the ◀ / ▶ button.

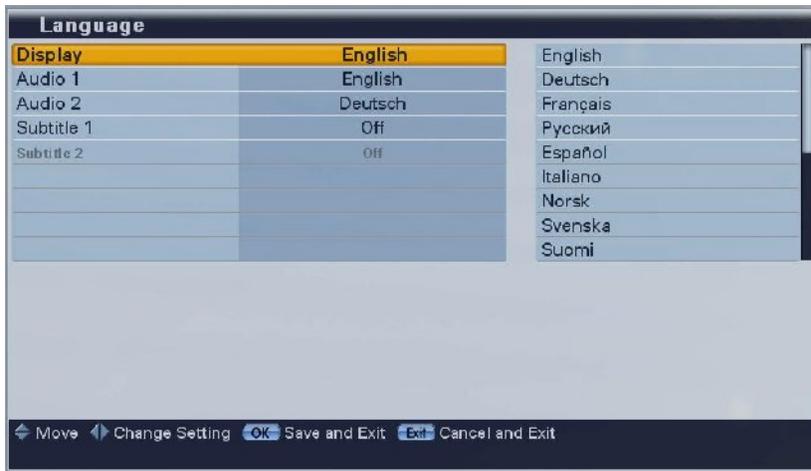
Press the **OK** button to save and exit. Rating mode allows you to block channel according to the age level you have set.

The rating allows you to block channel in relation to the age for children. This only can work, when the operator / channel support this function.

- View all: All channel will display.
- 7: Channel is blocked for person under a age of 7 years.
- 12: Channel is blocked for person under a age of 12 years.
- 15: Channel is blocked for person under a age of 15 years.
- 18: Channel is blocked for person under a age of 18 years.

When you select one channel that is block by this function, you need to give the password for open it.

5.5.5 Language



Select the language options using the ▲/▼/◀/▶ button.

Press the **OK** button to change the selected language.

Display:

Selection for the language used in on screen display (menu).

Audio 1-2:

Select here what is your first and second favourite language for the audio, if the channel/provider support it.

Subtitle 1-2:

Select here what is your first and second favourite language for the subtitle, if the channel/provider support it.

5.6 Other



- USB Transfer:** You can transfer the software or Channel data through USB device.
- Channel Upload:** Transfer the channel data to other receiver or PC.
- S/W Upload:** Transfer the software to other receiver or PC.
- Network Setup:** Set the Internet Protocol(TCP/IP) You can load Main S/W from network Server.

5.6.1 USB Transfer



Select Main S/W if you want to transfer the software to one USB device or if you will load it.

Select Channel if you want to transfer to one USB device or if you will load it.

Select with the buttons ▲/▼/◀/▶ the function you want and press **OK** for start.

Under menu item STB you see the main information about your receiver.

Model ID:
Identify number of your receiver.

Hardware-Version:
Installed hardware.

Software-Version:
Installed software.

Under menu item USB you can see the number of Main S/W total and Channel data Total on the USB device.

Main S/W : Displayed Main S/W total of available format.(sgn,bin)

Channels: Displayed Channel data total of available format (.bin)

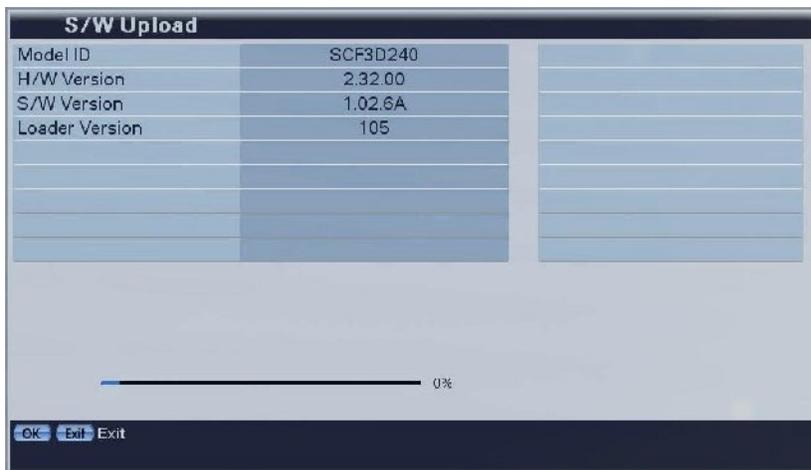


Connect the receiver with other receiver or PC through RS-232 cable.

For the target receiver, turn the AC Power off, then turn on again.

You can watch the transfer status of software.

5.6.3 Software (S/W) Upload



Connect the receiver with other receiver or PC through RS-232 cable.

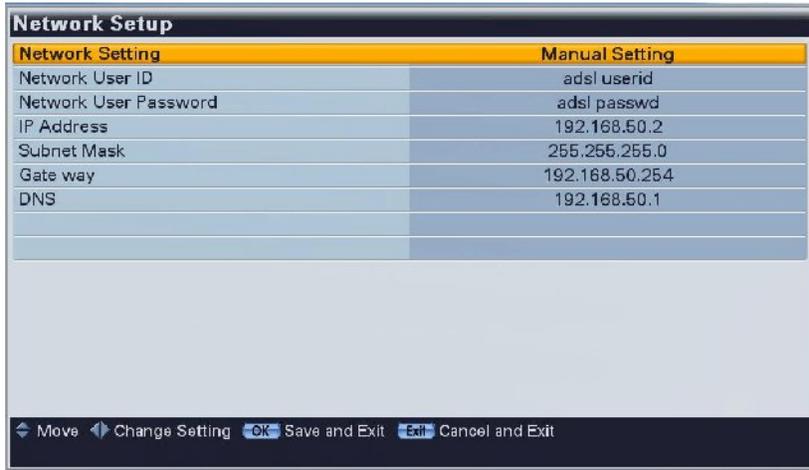
For the target receiver, turn the AC Power off, then turn on again.

You can watch the transfer status of software.

5.6.4 Network Setup

5.6.4.1 Internet Protocol(TCP/IP)

You can set the internet Protocol.



The screenshot shows a menu titled "Network Setup" with a sub-menu "Manual Setting". The sub-menu contains the following items:

Network Setting	Manual Setting
Network User ID	adsl userid
Network User Password	adsl passwd
IP Address	192.168.50.2
Subnet Mask	255.255.255.0
Gate way	192.168.50.254
DNS	192.168.50.1

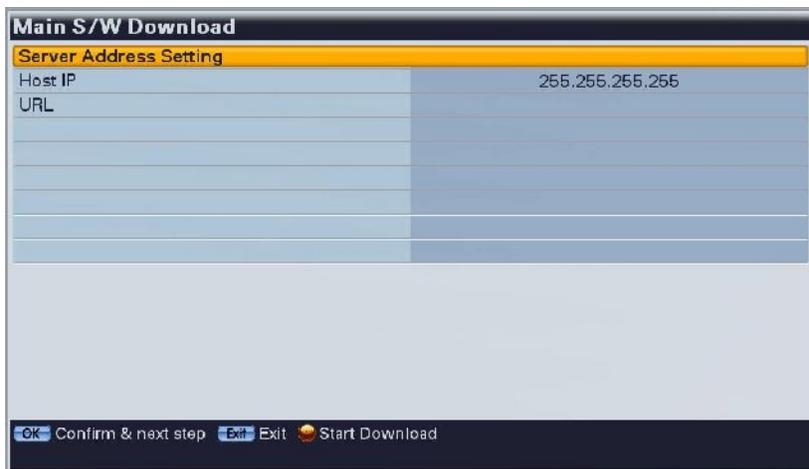
At the bottom of the menu, there are navigation options: Move, Change Setting, Save and Exit, and Cancel and Exit.

You can select options for your internet connection.

Please contact your internet connection provider for exact internet connection setting.

5.6.4.2 Main S/W Download

You can download main S/W from network Server.



The screenshot shows a menu titled "Main S/W Download" with a sub-menu "Server Address Setting". The sub-menu contains the following items:

Server Address Setting	
Host IP	255.255.255.255
URL	

At the bottom of the menu, there are navigation options: Confirm & next step, Exit, and Start Download.

Input the server address you want to connect to.

You can select only Host IP or URL.

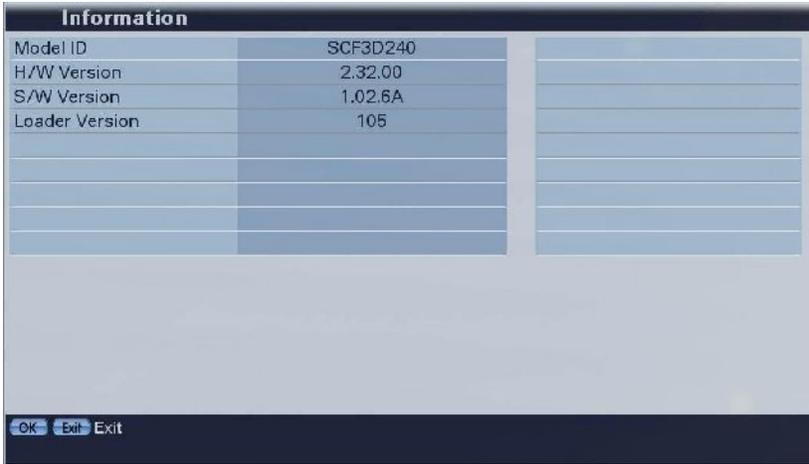
Please contact place of purchasing this Set-Top-Box in you do not know address of the server.

5.7 Status



Information: Display the system information of receiver.

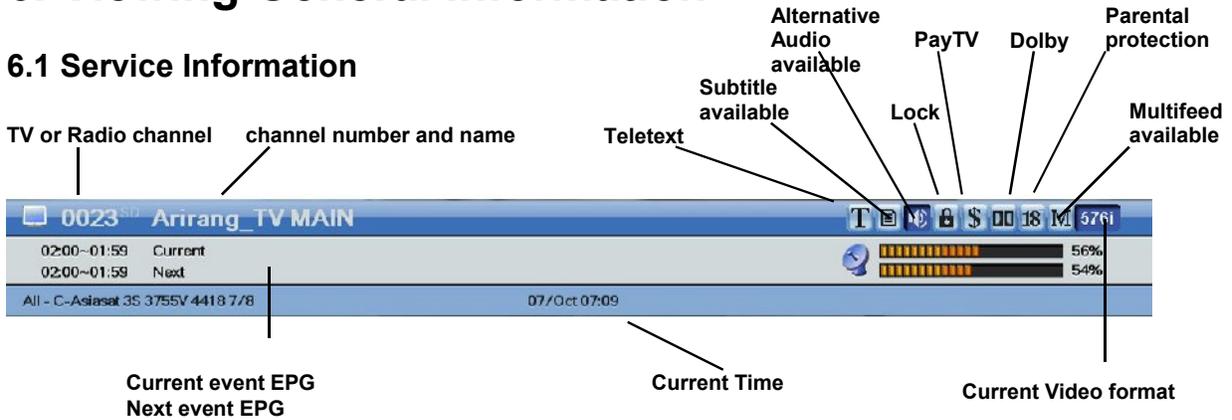
5.7.1 Information



You can watch the system information such as Model ID, Hardware version, Software version, and Loader version.

6. Viewing General Information

6.1 Service Information



Whenever you press the **INFO** button, the service information window appears for a few seconds.

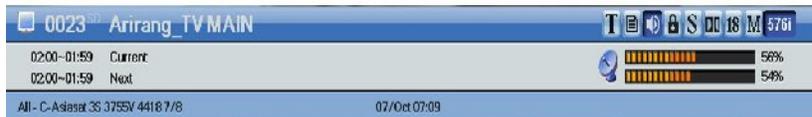
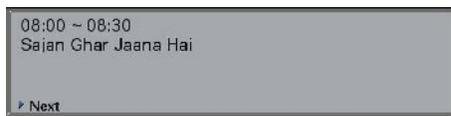
If you press the **INFO** button again on the service information, the detail EPG window appears.

If you press the **OK** button, information and EPG window will disappear.

Press the **CH+**, **CH-** button and then you can change the channel.



You can read next detail EPG using the **◀/▶** button on the service information.



6.2 TV & Radio changing

While watching TV or listening to Radio, you can select TV or Radio using the TV/Rad button.

6.3 TV or Radio Channel Lists



6.3.1 Watching Channel

While watching TV or listening to Radio, you can watch the channel list. Press the **OK** button to display the channel list.



Press the **OK** button or **AtoZ** button. If you want to view the sorted channel list, press the **AtoZ** button.

Press the **▲/▼** button to move the cursor.

Press the **OK** button to watch the desired channel.

If you want to hide the channel list, press the **Exit** button or press the **OK** button twice.

<Remark>

When the receiver has been in record mode, users can not watch several channels which colored on other color on the channel list.



When you have press the button **A-Z** you get the alphabetic sorted list.

Press **the numeric** button or the **Yellow** button. Then alphabetic Pad will appear.

Now you can choose with the buttons **▲/▼ ◀/▶** one letter and the list jump to the first entry with this letter.

- When you want to sort the channels, press the **AtoZ** button.
- When you want to change the TV/Radio mode, press the **TV/Rad** button.
- When you want to watch the next or previous channel page, press the **CH+-** button or **◀ / ▶** button.

6.3.2 Recall List



By pressing **Recall** button n the RCU twice quickly, you can see Recall List of ten channels watched previously.

6.3.3 Quick Find



You can search channels by words easily. Keyboard window will pop-up when you press **Blue** button.

Press Enter after you type words.

Quick Find function will be activated only with Favorite, Edit Channel, EPG and Channel List menu.

6.4 Options

While watching TV or listening to Radio, press the **Option** button. You can watch small pop-up window. You can select a option.(Audio Language, Teletext , Subtitle, Multifeed) If you want to change the option mode, press the ◀ / ▶ button.

6.4.1 Audio Language



Select the Audio mode using the ◀ / ▶ button.

Press the ▲ / ▼ button to select a desired audio language.

Press the **OK** button to change the audio language.

6.4.2 Teletext



Select the Teletext mode using the ◀ / ▶ button.

Press the ▲ / ▼ button to select a language.

Press the **OK** button.

You can watch the Teletext contents in the language if it is available.



6.4.3 Subtitle



Select the Subtitle using the ◀ / ▶ button.

Press the ▲ / ▼ button to select a language.

Press the **OK** button.

If the selected language is different from what is available, you can't watch the subtitle.

6.4.4 Multifeed



Select the **Multifeed** mode using the ◀ / ▶ button.

You can choose it with ▲ / ▼ and then press **OK** for activate one direct channel.

6.5 A / V +

While watching TV or listening to Radio, press the **A/V+** button. You can watch small pop-up window. You can select a option.(Audio mode, Video mode)

If you want to change the option mode, press the ◀ / ▶ button.

6.5.1 Audio-Modes



Select the **Audio Mode** using the ◀ / ▶ button.

Press the ▲ / ▼ button to set the output direction for speakers. (STEREO, LEFT, RIGHT, JOINT).

Press the **OK** button to save and exit.

6.5.2 Video-Modes

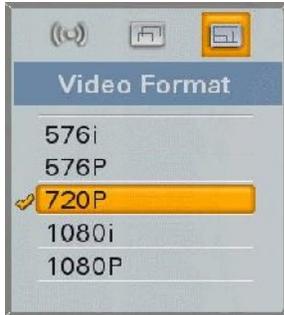


Select the **Video Mode** using the ◀ / ▶ button.

Press the ▲ / ▼ button to set screen format of your TV.

Press the **OK** button to save and exit

6.5.3 Video - Format



Select the **Video Format** using the ◀ / ▶ button.

Press the ▲ / ▼ button to set Video format of your TV.

Press the **OK** button to save and exit

6.6 Satellite/Favorite

While watchin TV or listening to Radio, press the **Sat/Fav** button. You can watch small pop-up window. You can select a Satellite or Favorite group.

6.6.1 Satellite



Select the Satellite using the ◀ / ▶ button.

Press the ▲ / ▼ button to select a Satellite.

Press the **OK** button, then you can watch the channel list of selected Satellite.

6.6.2 Favorite



Select the Favorite using the ◀ / ▶ button.

Press the ▲ / ▼ button to select a group.

Press the **OK** button, then you can watch the channel list of selected group.

6.7 EPG (Electronic Program Guide)

Press the EPG button and the electronic channel guide appears if applicable. Time intervals are arranged in a row and channel lists are shown in a column.



Press the ◀ / ▶ button to change time interval.

Press the ▲ / ▼ button to watch the guide about the channel, then the detail EPG window will appear.

Press the **Green/Yellow** button to move by day (24Hr). Press the **REW/FF** button to move by 4 hours.

Highlighted 'Event' with a red line means the 'Event' is programmed to be recorded ('Timer Reservation').

Press the **REC** button on the EPG, the reservation will be added or deleted.



Press the **Red** button to reserve channels with event. If you want to know the detail.

Description about reservation, refer to the reservation description in chapter **5.3.1 Reservation**.

6.8 PVR Function



Pause ||

The **Pause** || button activates the pause function during play a record or during watch a channel. For the last one, time shift must be active.

If you have pause active (max 2 hour) you can go back to the begin and by press the button **REC** you can record the event full.

For this go back by press the button REW button.

If you press again Pause you continue to look.



Play ▢

The button **PLAY** ▢ starts one recorded file if you have selected it in the file list.

If you have activated rewind or forward, the **PLAY** ▢ button change back to play mode.



REW ◀◀

With the rewind function who you can start by press the **REW** ◀◀ button you can go back in recordings or in time shift mode.

If you press again the speed of playback will change.

You need to press the **PLAY** ▢ button for go back to play mode.



STOP ■

The **Stop ■** button switch off to display a recorded event.

When you stay in time-shift mode and you has a delay between your actual position in the film and the real, you go by press the STOP button to the real position.



FF ►►

With the **FF ►►** button you can go forward in one recorded event.

If you press again the factor/speed for forward changes.

With this you can pass commercial blocks in recordings and in time-shift.



REC ●

The button **REC ●** starts the direct record function.

The recording time is pre select in menu PVR / Record setting.

During the recording you can adjust manual by press the buttons **REC ●** and than ◀ or ▶ .

SLOW |►

With this button you can set the speed during you play a record to slowly.

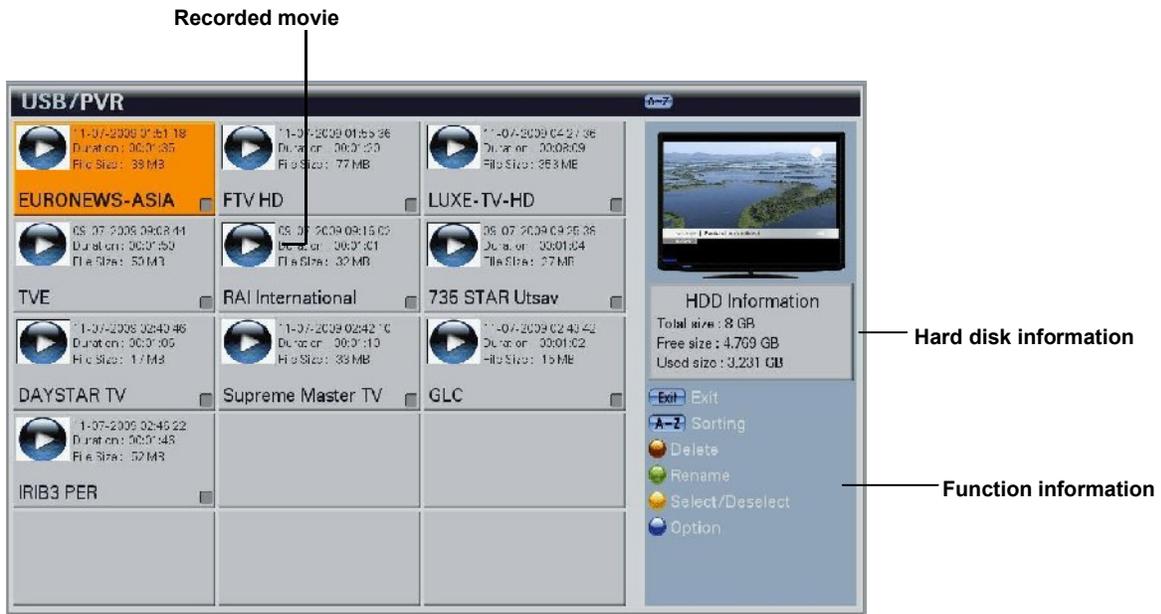
If you press again the factor/speed for slowly changes.

You need to press **PLAY □** for go back to play mode.

7. Display Movie and Picture

7.1 File list / Play function

The file list can be open by press the **PVR List**  button.



Play a recorded movie

For play a recorded movie select it by using the buttons **◀ / ▶ / ▲ / ▼** and than press **OK**.

Create a thumbnail

The receiver creates automatically during the first play a miniature picture for the file list.

If you want to change it, press **PLAY** .

Now you see a window that you need to confirm by select **Yes** and press **OK**. The picture will be create when you press **OK** for confirm.



Delete a file

Select the file by using the buttons ◀ / ▶ / ▲ / ▼ and than press **Red**.

Confirm the security question.

If you want delete more than one file, select it and press each time the button **Yellow button**. After marking press **Red** for delete it.



Rename a file

Select the file by using the buttons ◀ / ▶ / ▲ / ▼ and than press **Green**.

One window open and you can choose the letters by using the buttons ◀ / ▶ / ▲ / ▼ and than press **OK**.

When you are finish, go to Enter and press **OK**.

With **EXIT** you can leave this function.

You can use color for your convenience button.

7.2 Media Play

The photo album / XVID can be open by press the button **Media Play**.



The controls for the photo album and XVID list are the same like the file list. The functions Show, Delete etc. will be select by the buttons red

Show a picture and Play a XVID

-Select one mediafile by using the buttons ◀ / ▶ / ▲ / ▼ and press **OK**.

Now you can select if you want to see only this picture or you want to see a slide show. Please note, only pictures in JPEG-format can be display.

For don't have long loading times, it is recommend a file size with around 2 MB. This is full HD resolution for your display.

Additional Information

1. Technical Specifications

A. Input signal

Frequency range	950 MHz - 2150 MHz
Input level	-65dBm - -25dBm
Impedance	75 Ohm
Demodulation	DVB-S QPSK, DVB-S2 QPSK, DVB-S2 8PSK

B. Video

Video-Decoding	MPEG 4, H.264/AVC, MPEG 2
But rate	1.5 – 15 Mbit/s

C. Audio

Audio-Decoding	MPEG1 layer 1/2/3
Sampling Rate	32 / 44.1 / 48 kHz
Audio mode	Stereo, Dual channel, Joint Stereo, Mono

D. Power supply

Main voltage	90 VAC – 240 VAC 50-60Hz
Power consumption	30 W
LNB voltage	13 / 18 V ; 14 / 19 V
LNB current	0.5A Max
Control signals	22 kHz, 0.6 Vss, Tone Burst DiSEqC 1.0, 1.2, 1.3 USALS

E. Connectors

HDMI	1
Coaxial	1 ("Dolby Digital (AC3)" – Data stream)
Video	1 (RCA)
Audio	L + R (RCA)
RS-232	1 (D-Sub)
USB 2.0	2x variant A , 5V - 0.5A

F. Weight / Dimensions

Weight	3.4 kg (net)
Dimensions (WxHxD)	280x230x55 (mm)

2. Glossary of Terms

CAS

Conditional access system, access system for Pay TV channels.

CI

Common Interface, slot with standart mit genormter interface for CA module.

DiSEqC

Digital Satellite Equipment Control, signals made by the receiver for control LNB`s, multiswitch and motorised systems.

EPG (electronic program guide)

Information service made by the channel operator, with information about the shown movies.

FEC

Forward Error Correction, one technique for compensate transmission mistakes in defect data packages.

FTA

Free to Air, channels with out Pay-TV content, you can see free of charge.

LNB

Low Noise Block converter, the LNB converts the frequency from satellite to a frequency who can use by the receiver. One LNB has also a special amplifier with very less own noise.

MPEG

Moving Picture Experts Group, standards for digital compression in video and audio data.

PID

Packet Identification, the PID number is the identification number for digital audio and video data's inside a data stream.

PIN-Code

Personal Identification Number is a four digit code for lock critical areas in a receiver or to deactivate the parental control.

RS 232

Standard data interface for serial communication with other receivers or PC.

3. Troubleshooting

Operating disorders of the recipient can have different causes.

Check the recipient using the below listed practices.

If the problem with the help of this description can not be solved, please contact our hotline.

Mistake	Possible cause	Correction
Display off, no function	Receiver is not connect to main voltage or not switch on.	Check the power cord and the outlet, switch on the main power switch on the backside of the receiver.
No picture, no sound	Connection to TV set is not made properly.	Check out if the connections are made according this instructions manual.
	Receiver works, but no channel can be receive.	Realign the dish and control the signal bar in menu automatic search.
Bad picture quality „Mosaic-effect“	The dish is not align well.	Realign the dish and control the signal bar in menu automatic search.
No audio, picture OK	Mute function is active in receiver or TV set.	Deactivate mute function.
Remote control does not work	Batteries are old Wrong mode selected.	Check out if the batteries are OK Press the button STB.
Bad picture quality only receive some channels	LNB voltage can be to less or the cable looses are to high.	Change the LNB voltage to 14/19 V.
Parental protection can not deactivate	Code is wrong or forgotten.	Reset the code, check chapter 5.3.5

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