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 he 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
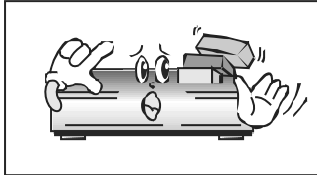
Avoid placing heavy things and blocking ventilation passage.

(Passage blocking can cause fire)
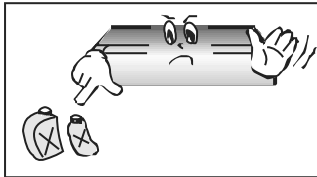
Avoid scrubbing the surface with Benzene or Volatile gasoline. Color can be damaged.
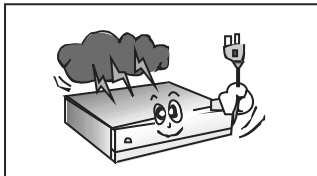
Leave the power and the antenna off for the ling absence or during thunder storm.
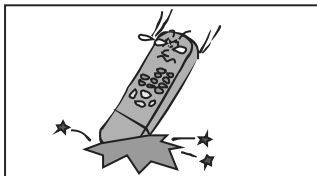
Avoid dropping and damaging Remote Control Unit.
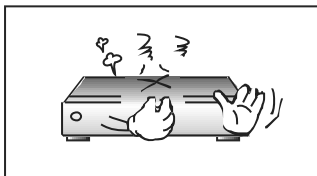
If there is smoke or burning smell, turn off & un-plug the set immediately. Contact your local repair center for advice.
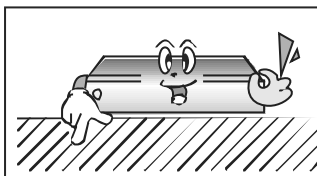
Avoid place the set on slippery and slant surface.
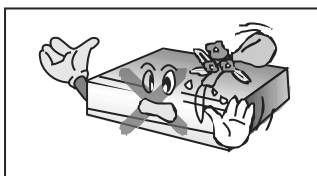
Keep away from the water.
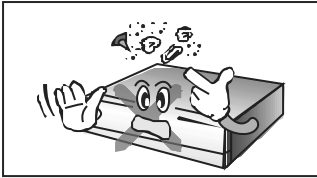
Clear off the dust. Dust or Metallic particles inside the set can cause fire and electric shock.
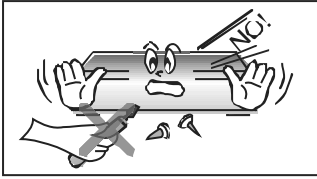
Avoid dissembling and assembling. Do not open the set.
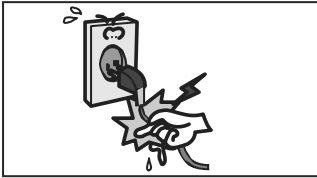
Do not snatch the cable to plug out.
Do not move the set while power cord is plugged in.
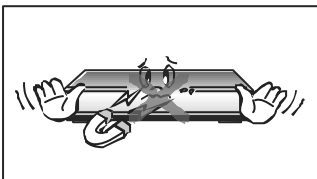
Keep the distance from Magnetic items and Audio Speaker.
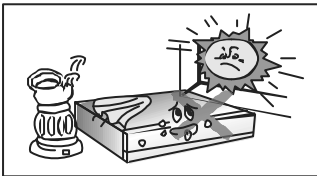
Place the set with the good ventilation and away from the direct sunlight and humidity.
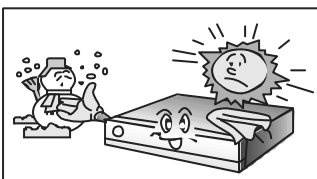
Avoid the temperature of over 30C and below 5C.

1.   Before You Begin

1.1 Features

- Digital Satellite Receiver for High Definition TV (2 Tuner HD-PVR)
- Resolution HDMI: 1080i, 720p, 576p (Upscaling for PAL transmissions)
- Alphanumeric VFD display with 12 digits and symbols
- CE hard disk quietly working and high transfer rate SATA connection up to 1 TB possible
- 3x USB 2.0 connections for external USB storages and one USB variant B
   for connect to PC
- Main switch for fully shut down the receiver
- Connectors: HDMI1.2, YPbPr, 2x Scart (RGB, YUV o. CVBS), Audio/Video 3x RCA, SPDIF
- 100Mbit LAN connection for data transfer to PC in preparation
   Protocol : TCP, UDP, IP, ARP, ICMP, MAC, (IGMP, PPPoE)
- Support for DiSEqC 1.0 (multiswitch) and DiSEqC 1.2/USALS (motorised system) and
   Unicable (one cable solution)
- First install guide for fast and easy setup
- Multi-language menu
- Integrated Photo album / picture viewer
- Picture in picture function for see two channels in same time
- 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
- 8000 memory places for TV and Radio channels

1.2 Accessories

- Manual

- Remote control

- Batteries (2x AAA 1,5V)

- HDMI - cablel

- Loopcable for bridge the tuner

- YUV - cable

- SPDIF - cable
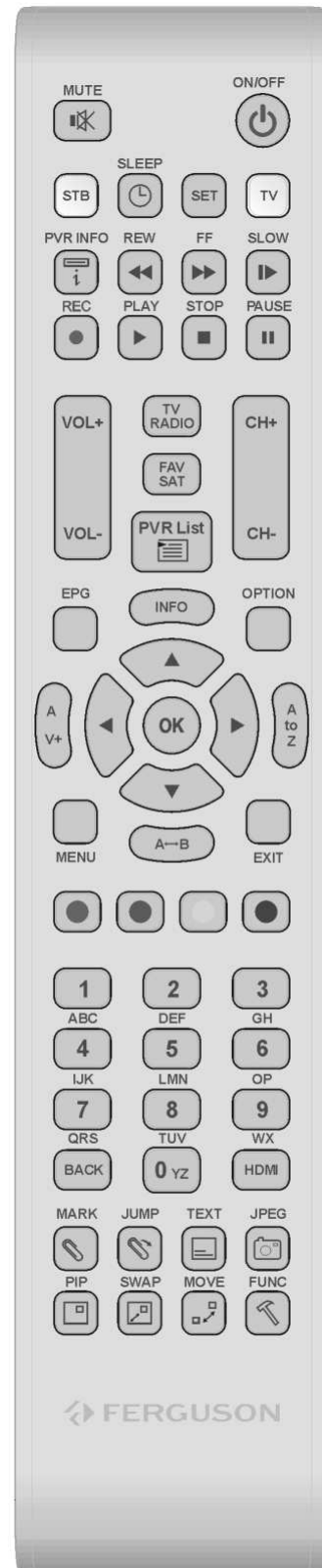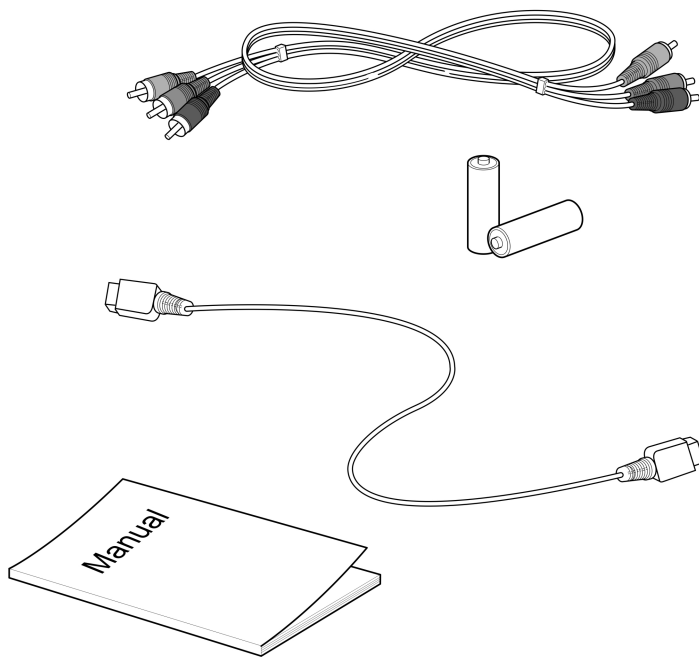
2.   Controls and Functions

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. (576P, 720P, 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 VFD Display

12-digit display for channel place and name.

In Standby it show time and date.

TV- and Radio-Symbol

Light up if channel

Symbol apears when

Dolby singnal is

Standby-Symbol.

Show the one record

by Timer is active

Circle around light up

REC light up when

Show the space used

2.3 Rear Panel

Item	Description
1. DISH IN A	Input Tuner 1 for digital signal from satellite reception equipment. Conncet this with the output from your outlet or satellit dish.
DISH IN B	Input Tuner 2 for digital signal from satellite reception equipment. Conncet this with the output from your outlet or satellite dish. For the full functionality of this receiver, you need to have 2 cable from your satellite reception equipment. If this is not possible, you need to connect with the cable bridge LOOP OUT A with DISH IN B.
LOOP OUT A	When you have only one cable from your satellite reception equipment,you need to connect with the cable bridge LOOP OUT A with DISH IN B.
LOOP OUT B:	Here you can connect other devices like one analogue receiver. Attention, only one receiver has to be active . If not the receivers disturb each other.
2. USB	USB connector variant B for connecting with PC.
3. USB	Back side USB connectors for external USB hard disks.
4. LAN	Connects to a PC for transferring files and SW download
5. HDMI	Connect HDMI input of TV or PC monitor.
6. CVBS OUT	Using standard video cables, these jacks connect CVBS(Yellow).
Stereo Audio OUT	Using standard stereo audio cables, these jacks connect L/R(White, Red).
YPbPr OUT	Using standard A/V cables, these jacks connect Y/Pb/Pr(Green, Blue, Red) HD component video input.
7. RS-232C	Connects to a Set-top box or a PC serial port.
8. S/PDIF	Output for connection to a digital amplifier.
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
POWER	Turns the receiver On/Off.
MUTE	Turns the sound on/off.
STB	
Sleep	You can turn the STB off after minutes set.
SET	
TV	
PVR Info	Display playback status bar
REW	Rewind playback.
FF	Fast forward playback.
SLOW	Playback in slow mode..
REC ●	Record the channel.
PLAY :	Playback the recorded files.
STOP ■	Stop playing mode.
PAUSE ‖	Pause playing mode.
VOL+/-	Changes channels in viewing mode or selects other menu pages with sub-pages.
TV/Radio	Switches between TV and Radio.
FAV/SAT	Selects the group of favorite. Show the search Satellite list.
PVR LIST	Display the file list of recorded files
CH+/-	Changes channels in viewing mode.
EPG	Shows the TV/Radio Channel guide.
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.
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
MENU	Shows the Main menu in viewing mode.
A-B ⟲	Set the block to repeat copy and cut.
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.
EXIT	Exit from the present menu and moves to the previous menu.
A to Z	Sorts the channels automatically in alphabetical order.
RED	For Teletext or commands various functions in each MENU. There are 'HELP' in each MENU for color key use.
◄ / ► ( )	Moves left/right or change settings in menu mode. Changes the volume level in viewing mode.
YELLOW	
▲ /▼ (/)	Moves up/down in menu or changes channel.
BLUE	
RED	JPEG
GREEN	Multifeed +

9

YELLOW	Multifeed -
BLUE	Screen proportion
NUMERIC Buttons (0~9)	Select channels or can use as a alphabetic search key in the sorted channel lists.
BACK	Move to the previous channel.
HDMI	Change the video resolution
MARK	Set the bookmark.
JUMP	Jump to bookmarked point.
TEXT	Activate the teletext function
JPG	Display the JPEG list.
PIP	Watch the two channels at the same time.
SWAP	Switch between main-picture and sub-picture
MOVE	Move the position of PIP.
FUNC	SCART & RCA video outputs will be excluded while using **PIP** function. Use this button to cancel **PIP** function and restore your SCART & RCA SD video outputs Commands various functions in each MENU There are 'HELP' in each MENU for FUNC key use.

3. Connections

3.1 Connecting to TV

\<Connecting to digital TV which can support HD resolution (1080i,720p576p) using YPbPr port\>
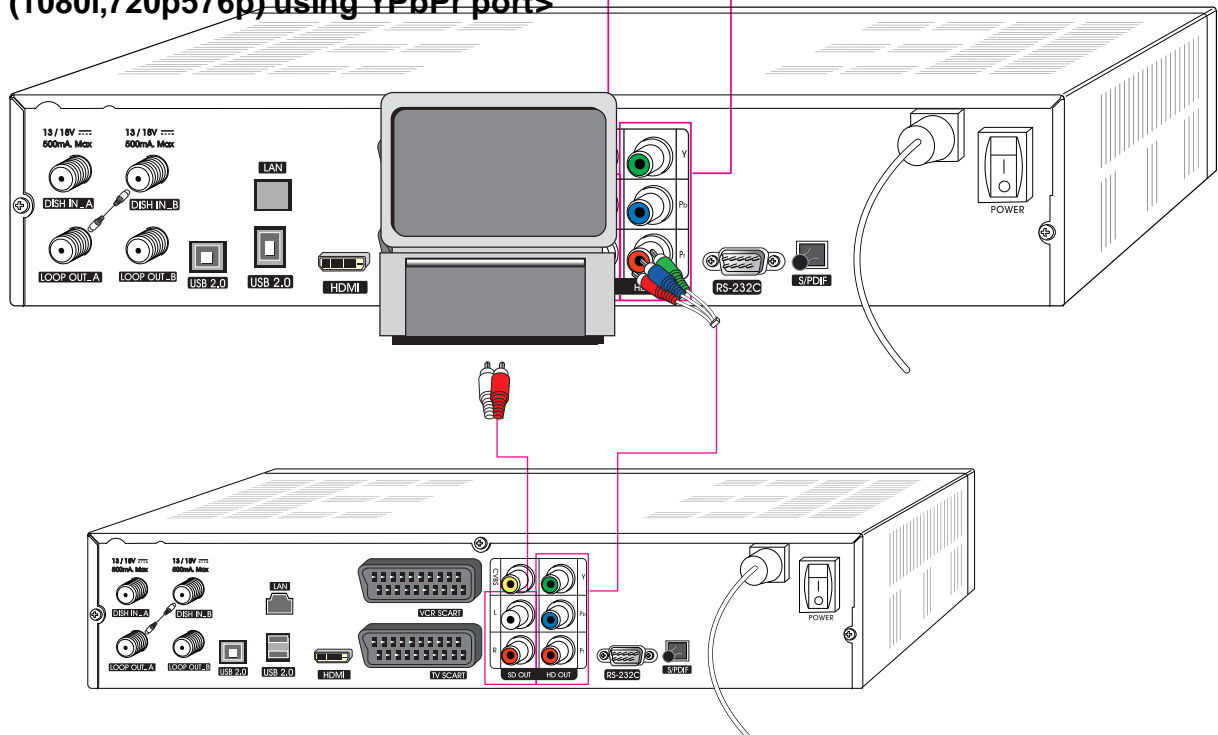
1.   Connect STB's YPbPr OUT and audio L/R OUT to YPbPr IN and audio L/R IN of TV.

2.   Set STB's video output mode to 1080i or 720p or 576p using 'Video Format' key of remote controller. Please check TV's user manual for detail connecting method of the YPbPr input port.

<Receiver to TV and VCR with SCART Cables >
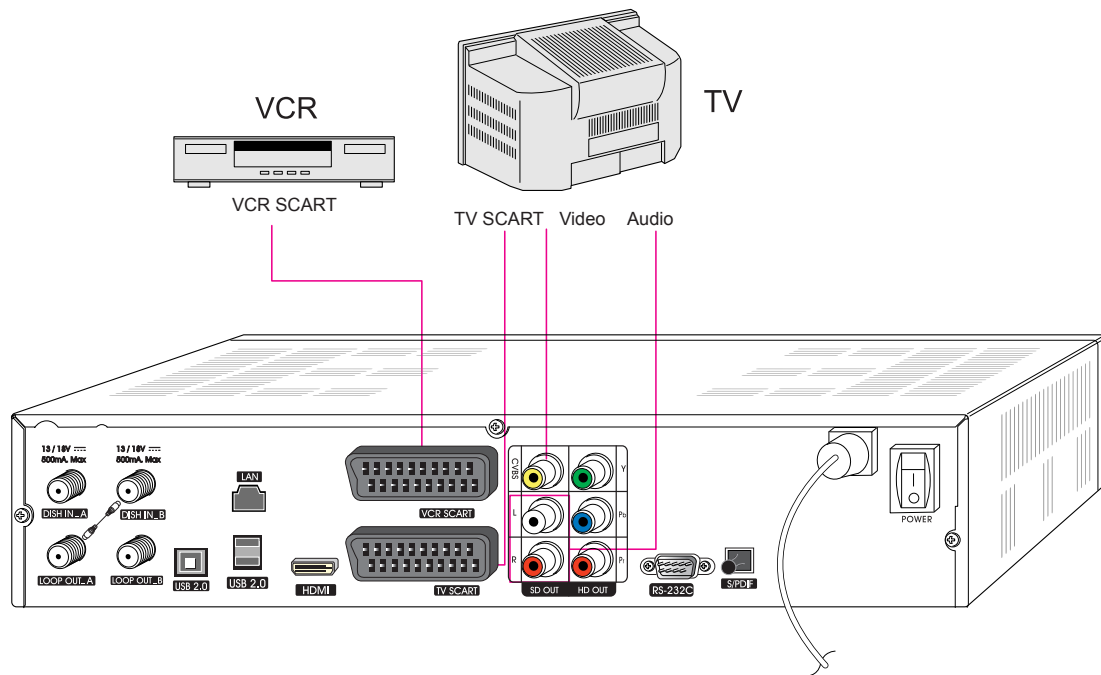
1. Connect the Video and Audio of TV to the Video and Audio. Connect Red and White connector to Audio R and Audio L, and Yellow to Video port respectively.

2. Connect the TV SCART of TV to lower SCART connector with fully featured SCART cable.

3. Connect the VCR SCART of VCR to upper SCART connector with fully featured SCART cable.

4. Go to section 3.4, Connecting to Dish, then connect your dish.

<Connecting to PC monitor or digital TV which has HDMI input port>
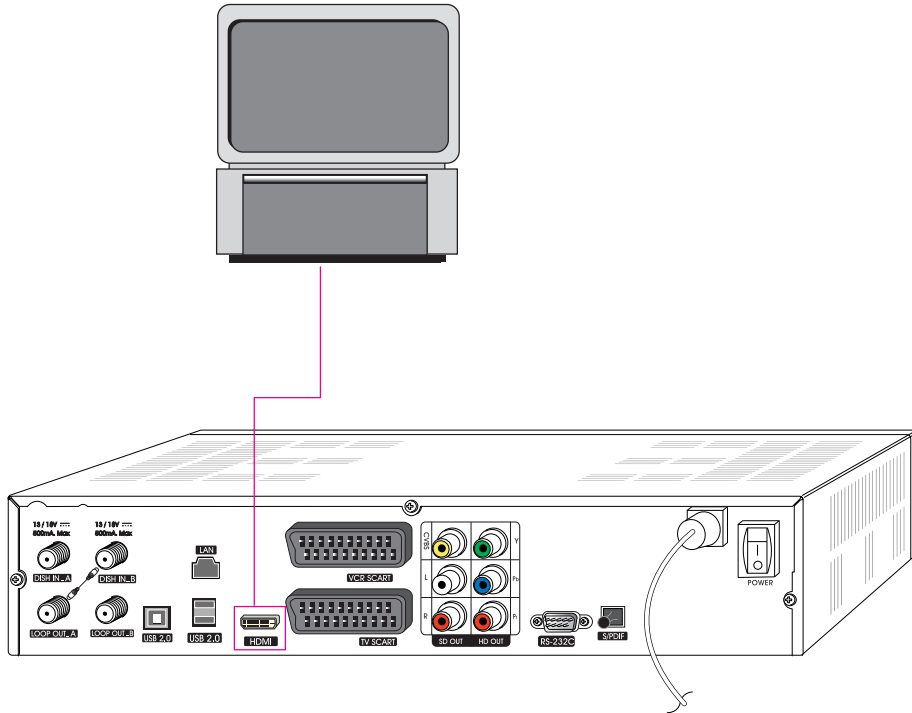
1. Connect STB's HDMI OUT to HDMI IN of monitor or TV.

2. Set STB's video output mode to 1080i or 720p or 576p 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)>
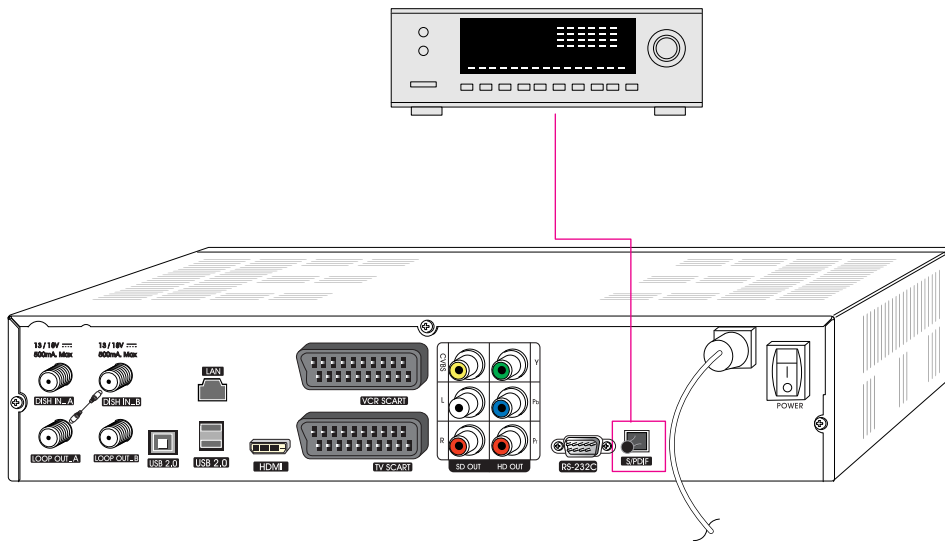
1. Connect STB's optical digital audio out to A/V receiver.

2. Go to TV Output menu and set "Dolby Digital(AC3)" to enable.

3.2 Connecting from external USB devices

The receiver has 3 USB 2.0 ports 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 not record directly to external data sources.

These are always first on the internal SATA recorded and then from there to external USB devices can

be copy.
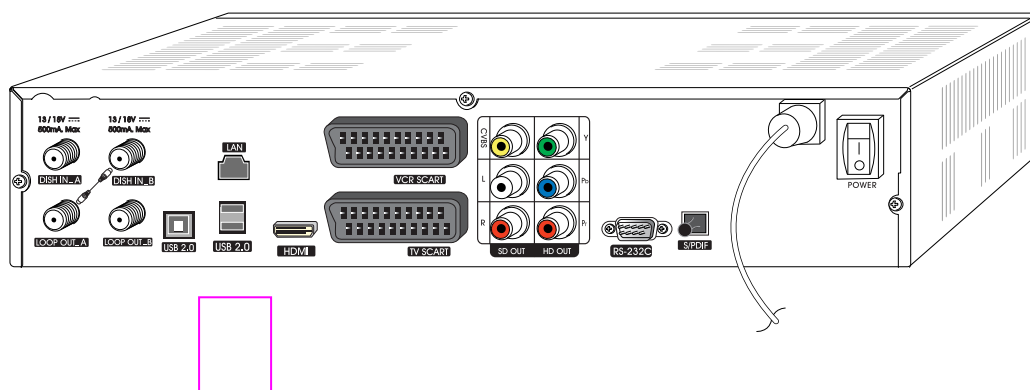
3.3 Connecting receiver to PC

You can connect the receiver in two way 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

Connect the receiver with dual-connection (two cable)

To get the full functionality, it is necessary to have 2 connections from the antenna.
These has to be connect to the receiver inputs DISH IN A and B application.

When you have only one cable from your satellite reception equipment,
you need to connect with the cable bridge LOOP OUT A with DISH IN B.

Recommend
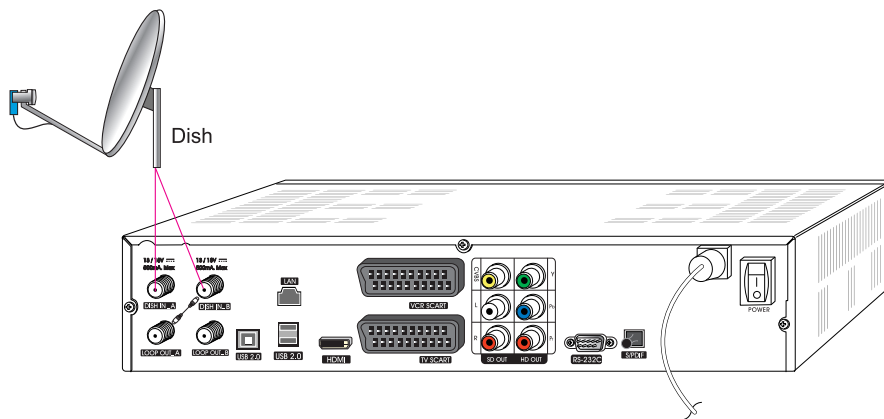
Alternative
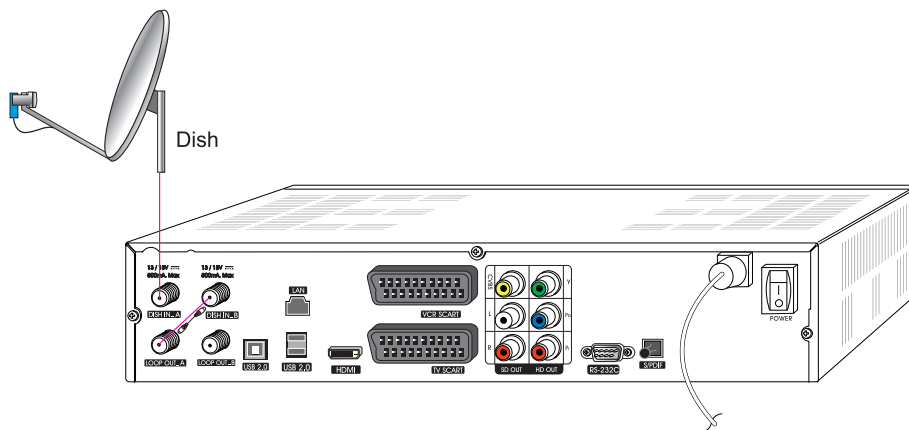
Connect the receiver to multiswitch:

Connect the multiswitch outputs with the inputs DISH IN A and DISH IN B from the receiver.
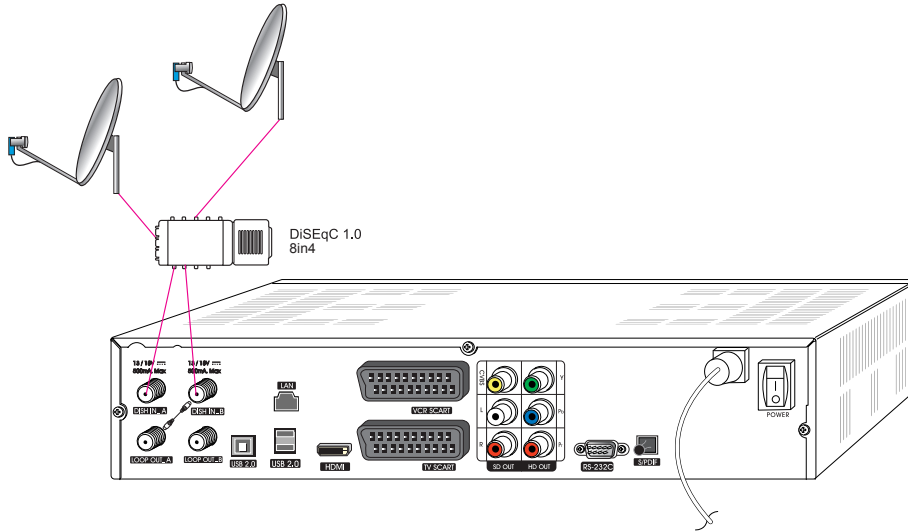
Pleas check out that for receive different satellite the DiSEqC signal must be active and adjust.

Go for this to Main menu > Installation > Dish.

Because you can setup the inputs from receiver different dishes, the follow installation is also possible.
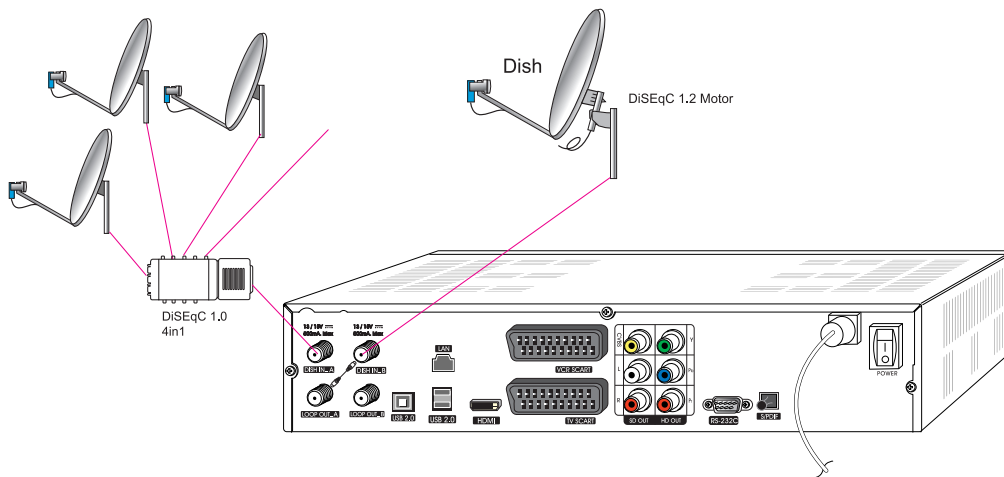
4. Menu overview

4.1 How to use inside menu
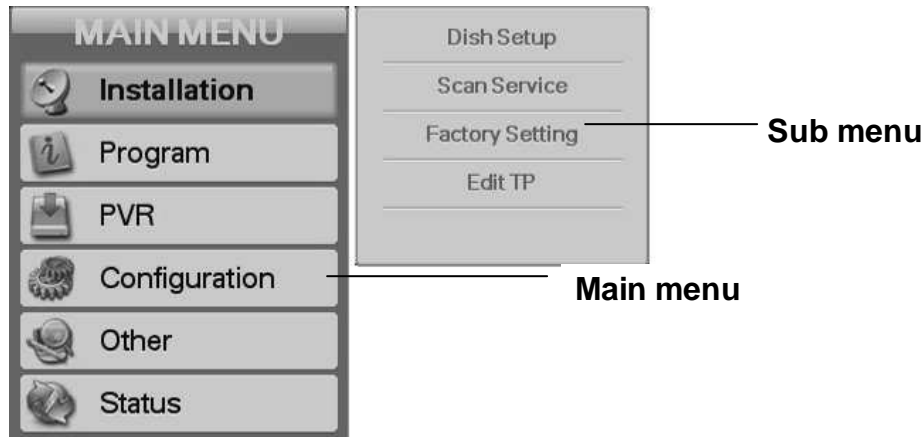
- Press the menu button on the remote control for open the main menu.

- The submenu you can choose by using the buttons ▲ / ▼ / ◄ / ► .

- 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.

TV Output		
SCART	CVBS	CVBS
TV Screen	16:9	RGB
Dolby Digital(AC3)	Disable	S-VIDEO
Digital Audio	Dolby Digital(AC3)	
HDMI DolbyDigital	Disable	

RGB Setting on Scart Mode will bring NO VIDEO from Component out.

Move Change Setting OK Save and Exit Exit Cancel and Exit
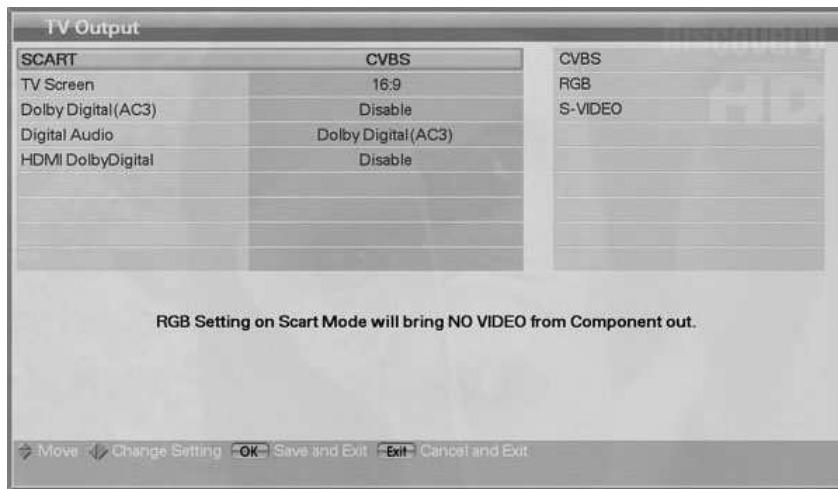
In this example:

▲ / ▼   Move the cursor

◄ / ►   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.

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.

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

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

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.
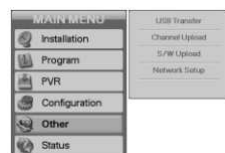
5) Other

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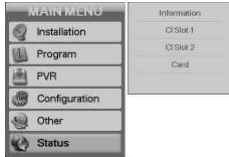
USB device.

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.

CI-Slot 1:   Information about the used CAM module in slot 1.

CI-Slot 2:   Information about the used CAM module in slot 2.

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.

First Installation		
Language	English	English
Offset	GMT+01:00	Deutsch
Tuner Connection	1 LNB, Single Connection	Français
Satellite	4.0°E Eurobird 4	Русский
LNB Type	5150	Español
DiSEqC	None	Italiano
Start Scan		Norsk
		Svenska
		Suomi

OK Confirm & next step   Exit Cancel and Exit

Step 1

Select the desired language
using the ▲/▼ button.

Step 2

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

Step 3

Select the desired Tuner Connection such as Single Connection, Dual Connection using the ▲/▼ button.

Step 4

Select the desired satellite using the ▲/▼ button.

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

Step 5

First Installation

Language	English	5150
Offset	GMT+03:00	**9750/10600**
Tuner Connection	1 LNB, Single Connection	9750/10750
Satellite	5.0°E Sirius 2, 3, 4	9750
LNB Type	**9750/10600**	10000
DiSEqC	None	10750
Start Scan		11300
		11475

OK Confirm & next step ⬤ Previous Step Exit Cancel and Exit
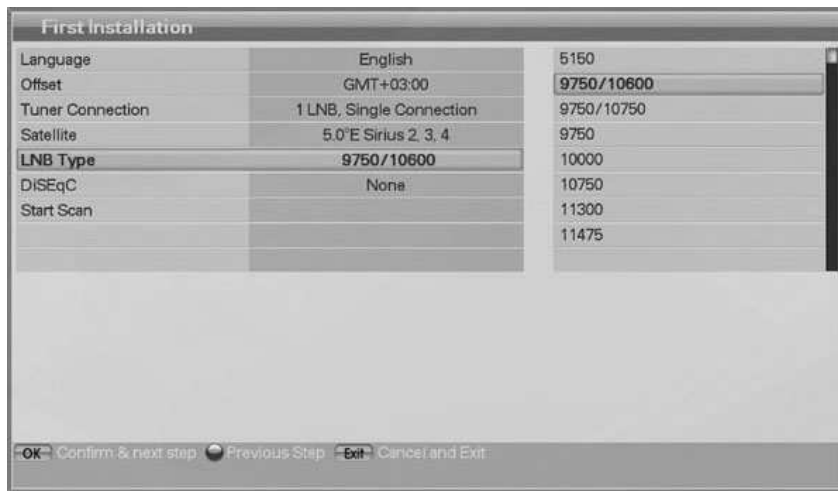
Select the LNB Type using the ▲/▼ button.

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

Step 6

First Installation

Language	English	None
Offset	GMT+03:00	A
Tuner Connection	1 LNB, Single Connection	B
Satellite	5.0°E Sirius 2, 3, 4	C
LNB Type	5150	D
DiSEqC	**None**	
Start Scan		

OK Confirm & next step ⬤ Previous Step Exit Cancel and Exit
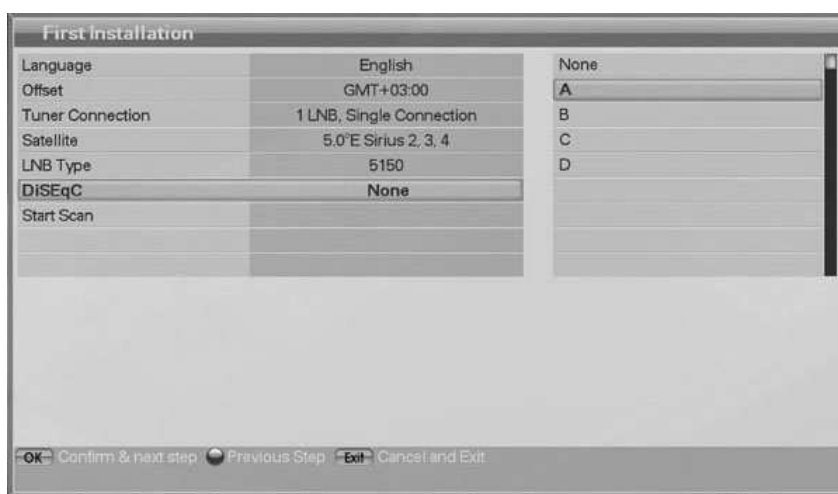
If you use a DiSEqC 1.0 switch, select DiSEqC option using the ▲/▼ button.

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

Step 7

First Installation

Language	English	
Offset	GMT+03:00	
Tuner Connection	1 LNB, Single Connection	
Satellite	5.0°E Sirius 2, 3, 4	
LNB Type	5150	
DiSEqC	None	
Start Scan		

OK Confirm & next step ⬤ Previous Step Exit Cancel and Exit

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.

Dish Setup		
Dish	1	1 C-Asiasat 3S
Satellite	105.5°E C-Asiasat 3S	2 Astra 1D/1E/3A
Transponder	3680H 26670 3/4	3 Hotbird
LNB Type	5150	4 Hispasat
LNB Power	13/18V	5 Nilesat 101, 102
22KHz	Off	6 Thor 2, 3
Tuner connection	Loop through	7 Sirius 2, 3, 4
Switch Type	None	8 Eutelsat W3A
Go to	Auto Scan	9 Eutelsat W1
		10 Eutelsat W2
		11 Eutelsat W6

10%
0%

⬍ Move ◁▷ Change Setting ⌐OK⌐ Save and Exit ⌐Exit⌐ Cancel and Exit
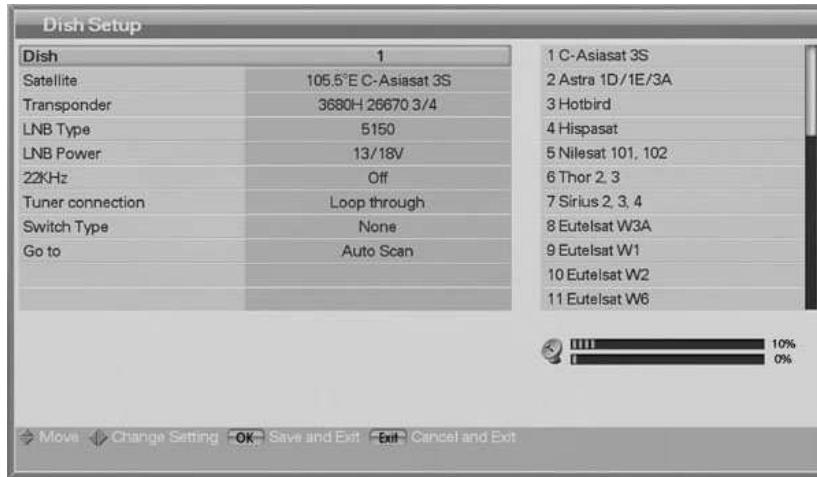
Press **OK** button on the sub menu.

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.

Dish Setup		
Dish	1	1 C-Asiasat 3S
Satellite	105.5°E C-Asiasat 3S	2 Astra 1D/1E/3A
Transponder	3680H 26670 3/4	3 Hotbird
LNB Type	5150	4 Hispasat
LNB Power	13/18V	5 Nilesat 101, 102
22KHz	Off	6 Thor 2, 3
Tuner connection	Loop through	7 Sirius 2, 3, 4
Switch Type	None	8 Eutelsat W3A
Go to	Auto Scan	9 Eutelsat W1
		10 Eutelsat W2
		11 Eutelsat W6

10%
0%

⬍ △▽ Move ⌐OK⌐ Select ◁▷ ⌐Exit⌐ Exit
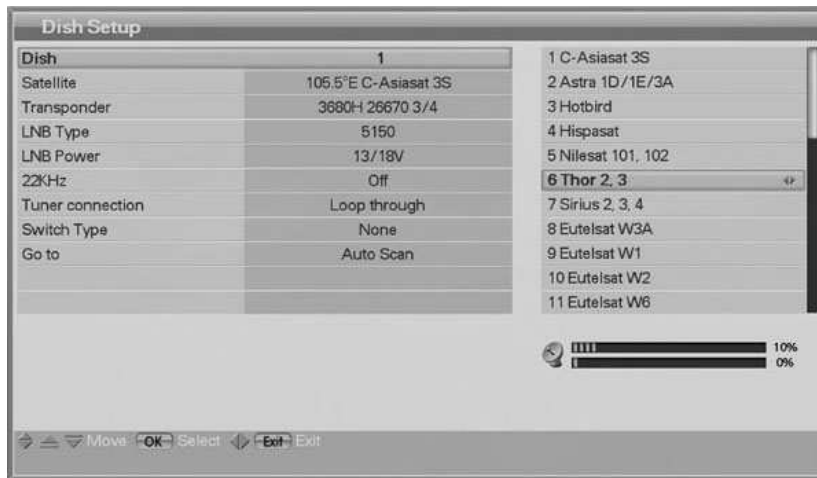
Press the ◂ / ▸ buttons, the right screen shows the pre-selected 32 satellite lists.

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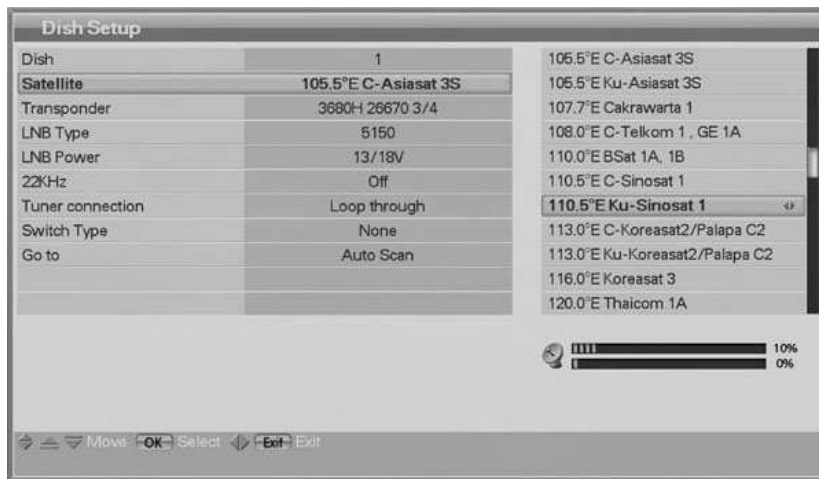
Press the ◀ / ▶ button to watch the satellite in the pre-programmed lists. Press the **OK** button to replace the Current satellite with the selected satellite

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.
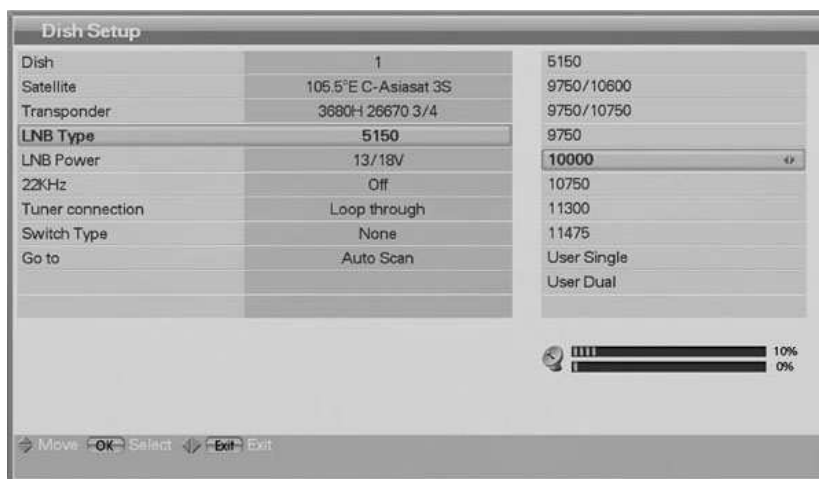
Select the LNB Type value.

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.

Dish Setup		
Dish	1	Off
Satellite	105.5°E C-Asiasat 3S	13/18V
Transponder	3680H 26670 3/4	14/19V
LNB Type	5150	
LNB Power	14/19V	
22KHz	Off	
Tuner connection	Loop through	
Switch Type	None	
Go to	Auto Scan	

10%
0%

Move Change Setting OK Save and Exit Exit Cancel and Exit
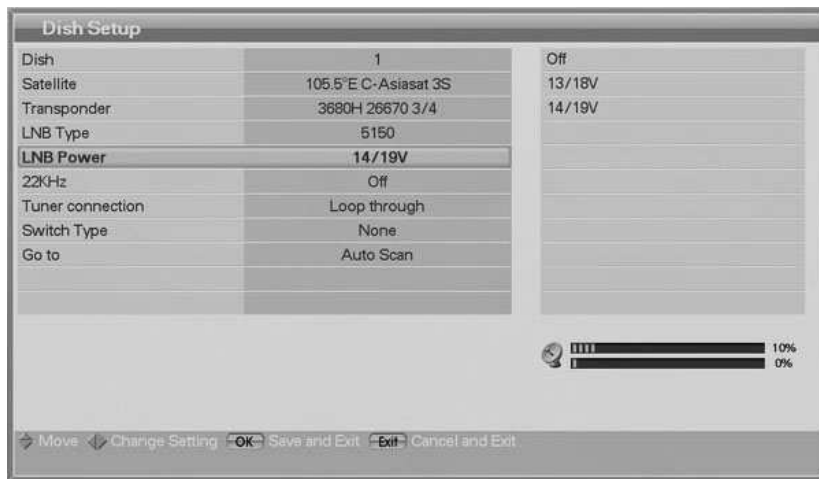
Select one of the LNB Power types using the ◄ / ► button

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.

Dish Setup		
Dish	1	Loop through
Satellite	105.5°E C-Asiasat 3S	A only
Transponder	3680H 26670 3/4	B only
LNB Type	5150	Dual
LNB Power	14/19V	Unicable
22KHz	Off	
Tuner connection	Dual	
Tuner selection	A	
Switch Type	DiSEqC	
Option	A	
Go to	Auto Scan	

10%
0%

Move Change Setting OK Save and Exit Exit Cancel and Exit
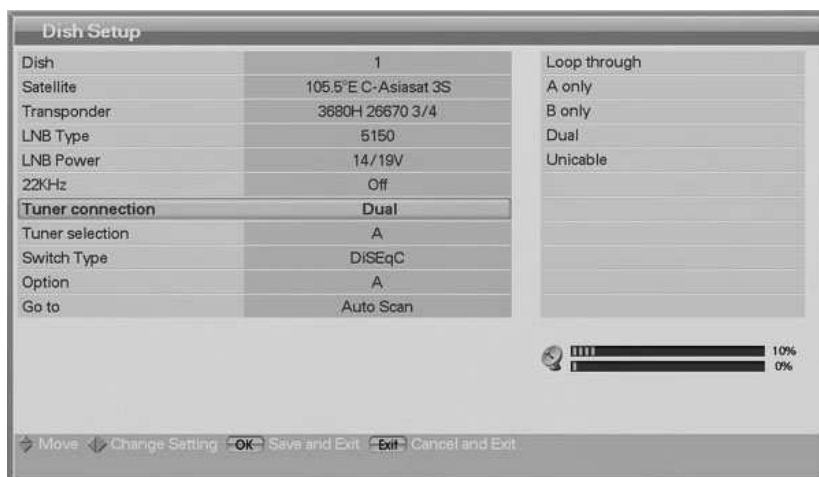
You can change the sort of the Tuner connection using the ◄ / ► button such as Loop through, A only, B only, Dual, Unicable.

Press the **OK** button to select the Tuner Connection.

Select Switch Type if used.

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

Select on of the DiSEqC inputs from the Option.
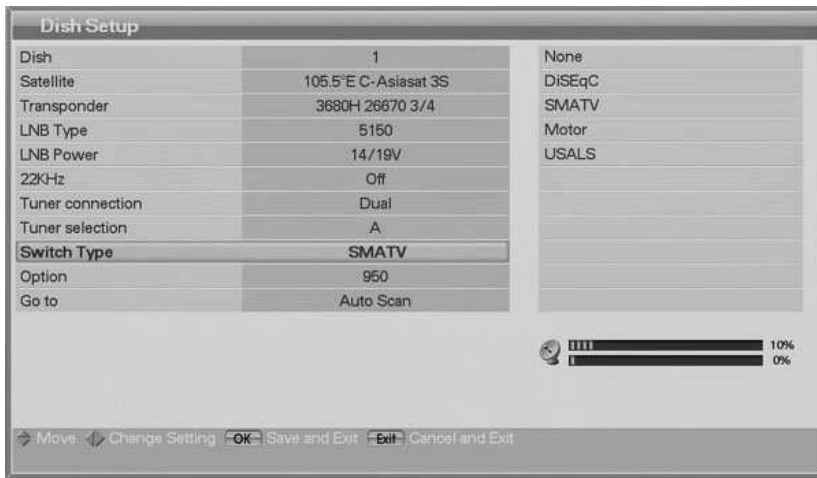
Select Switch Type.

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.
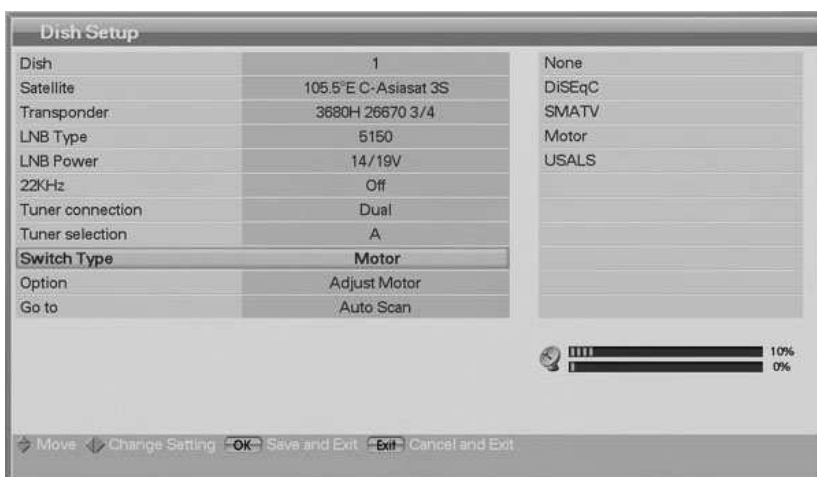
Select Switch Type.

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

Change position of your Motor through the Option.
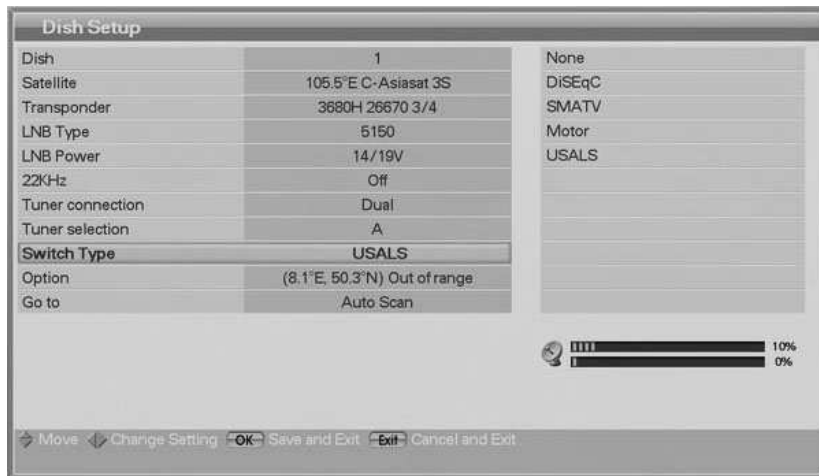
Select Switch Type.

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

Change position of your USALS motor through the Option.
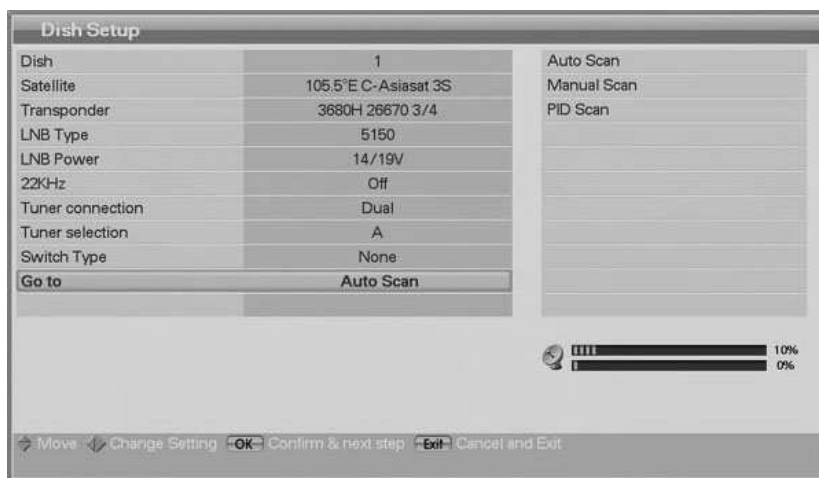
Select Auto Scan or Manual Scan or PID Scan and then press the **OK** button.

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.

Scanning

TV 251	Radio 19
0241 i-Horizon	0009 RFI Francais
0242 ZEE MUSIC	0010 RFI Langues1
$ 0243 ZEE NEWS	$ 0011 480 CUE
$ 0244 ZEE PUNJABI	$ 0012 216 BPL RADIO
$ 0245 ZEE GUJRATI	0013 RFA Radio 390
$ 0246 ZEE BANGLA	A 1 Radio 411
$ 0247 ZEE MARATHI	A 2 Radio 412
$ 0248 ZEE TV - NEW	A 3 Radio 413
$ 0249 ZEE CINEMA	A 4 Radio 414
0250 ZEE SMILE	0018 Radio Pakistan 2
$ 0251 ZEE BUSINESS	0019 Radio Pakistan 1

Do you want to save changes?

‹ Yes ›   No

105.5"E C-Asiasat 3S   4140V 27500 3/4

73%
95%
100%

Move   OK Select   Exit Exit

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.

Scan Service		
Select Scan Type	Manual Scan	Auto Scan
Dish	1 C-Asiasat 3S	Manual Scan
Frequency	3680 MHz	PID Scan
Polarity	Horizontal	
Symbol Rate	26670	
Modulation	DVB-S QPSK	
Code Rate	3/4	
Scan Mode	Free+CAS	
Service Type	TV+Radio	
Network Search	Disable	
Go to	Dish Setup	

Start Scan

68%
79%

Start Scan   Move   Change Setting   Exit   Cancel and Exit
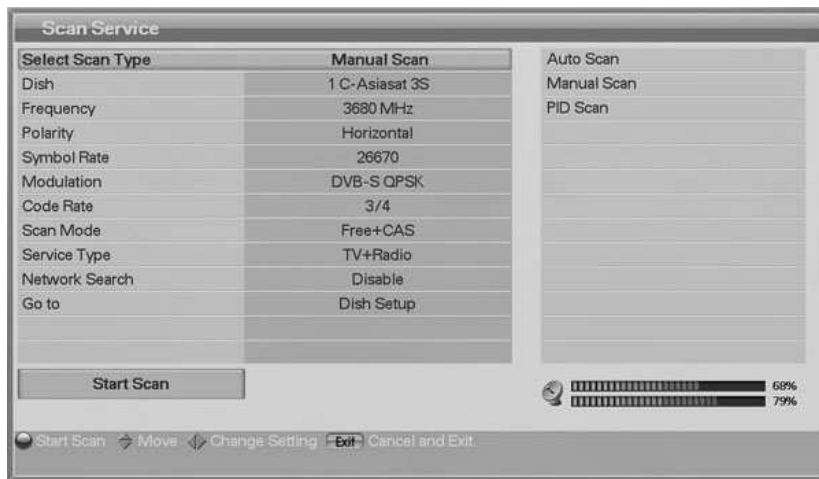
Dish:	The target satellite for the manual scan.
Frequency:	The frequency of the transponder you want to find manually.
Polarity:	The polarity of the transponder you want to find.
Symbol rate :	The symbol rate of the transponder you want to find.
Modulation:	Select the modulation(DVB-S QPSK, DVB-S2 and 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. If you did not know it, select AUTO and the receiver try it by him self.
Scan mode:	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.

5.2.4 Edit TP

You can modify the entries in the transponder list.
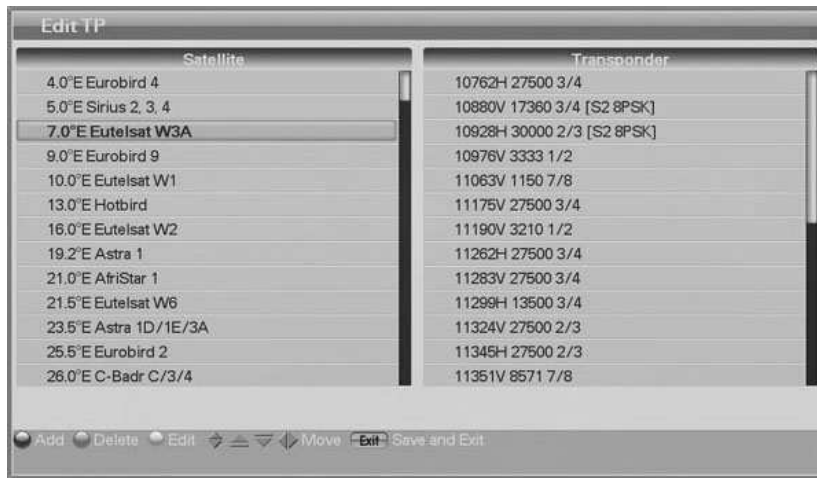
Press the **Red/Green/Yellow** button to select the satellite in the left screen or the transponder in the right screen.

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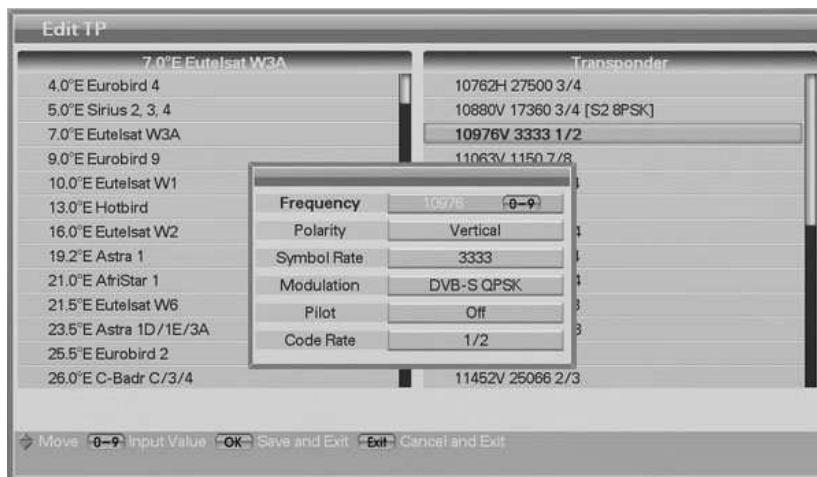
If you press the **OK** button, the current changing state will be saved and exit.

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.

	Fav 1	Fav 2	Fav 3	Fav 4	Fav 5	Fav 6	Fav 7	Fav 8
0034 DW-TV ASIA								
0035 Nat. Geo						✓	✓	✓
0036 STAR Movies ME		✓			✓			
0037 STAR	✓							
0038 STAR World			✓			✓		
0039 STAR UTSAV						✓		
0040 508								✓

Move — Rename — Channel Finder — A-Z Sorting — OK Select — Exit Save and Exit

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.

	Fav 1	Fav 2	Fav 3	Fav 4	Fav 5	Fav 6	Fav 7	Fav 8
0031 TV5							✓	✓
0032 Eurosport Asia		✓	✓			✓		
0033 EurosportNews	✓				✓			
0034 DW-TV ASIA				✓				✓
0035 Nat. Geo								
0036 STAR Movies ME	✓		✓					
0037 STAR								

Move — Rename — Channel Finder — A-Z Sorting — OK Select — Exit Save and Exit

5.3.2 Edit Channel
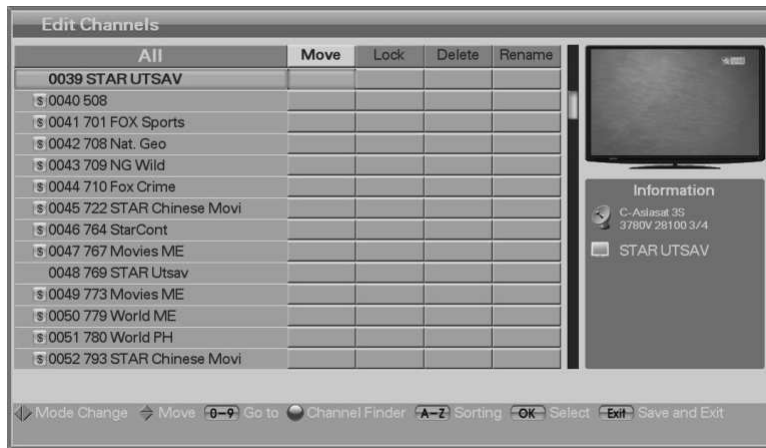
You can move, lock, delete and rename the channel.

    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**.**
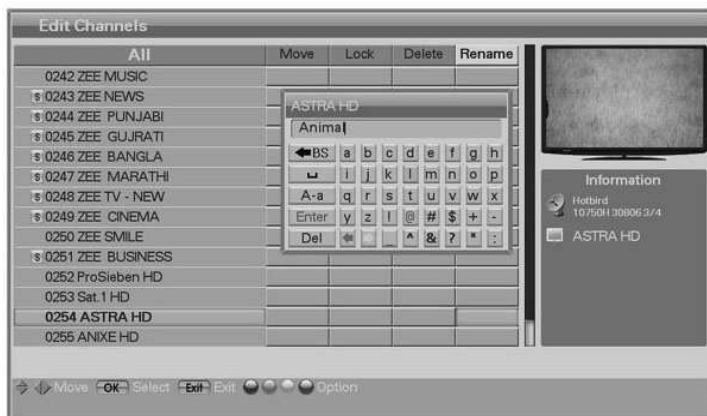
- Rename: Select the Rename position using ◀ / ▶ buttons.
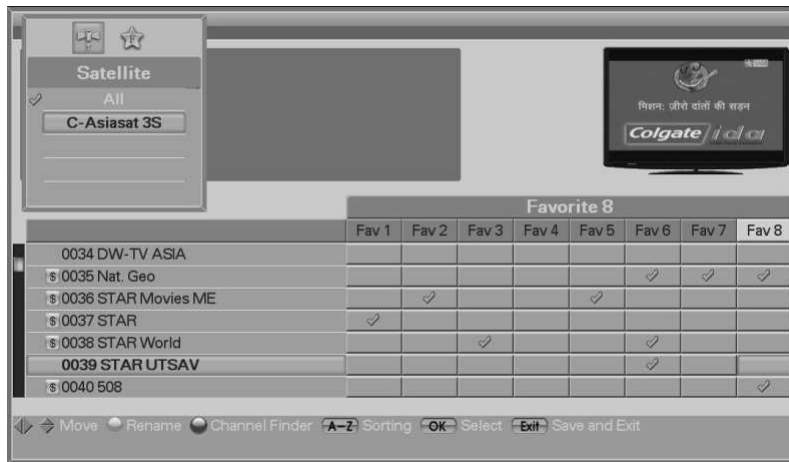
    Select the channel to rename and press the **OK** button. And then a small editing name

    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
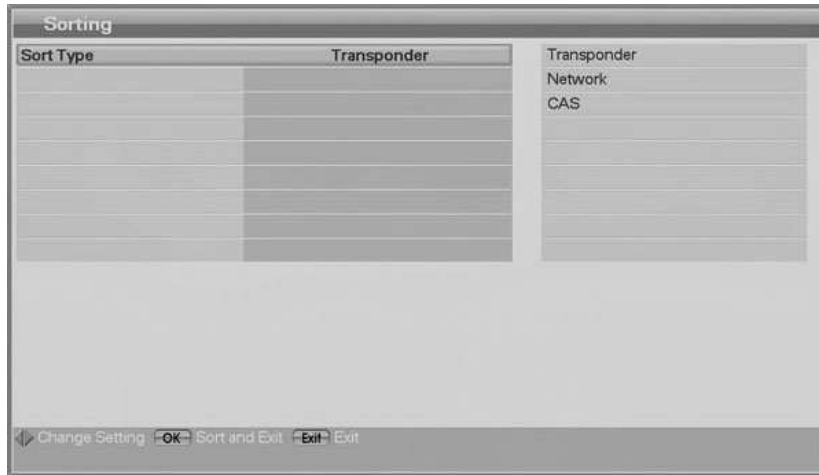
Select Sorting Type using the
◄ / ► button.

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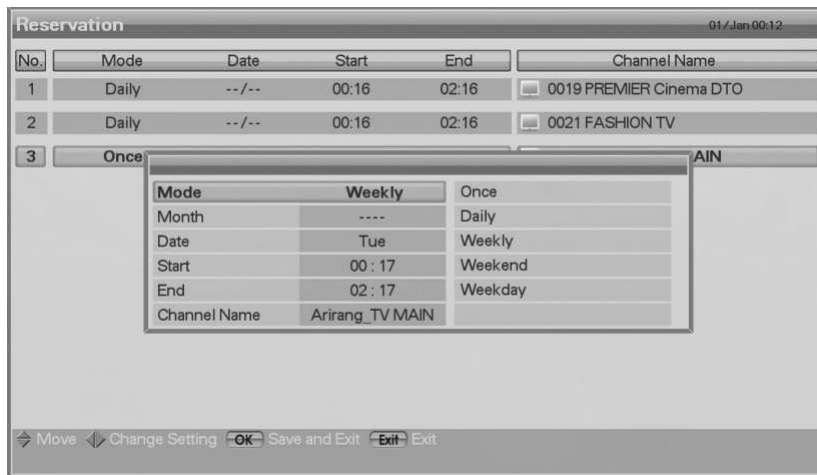
Now the reservation window open and you can modify the recording information.

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)

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

Weekend : Recording on weekend (Every Saturday to Sunday)

Weekday : Recording will be repeat every week

Daily : Recording will be done every day

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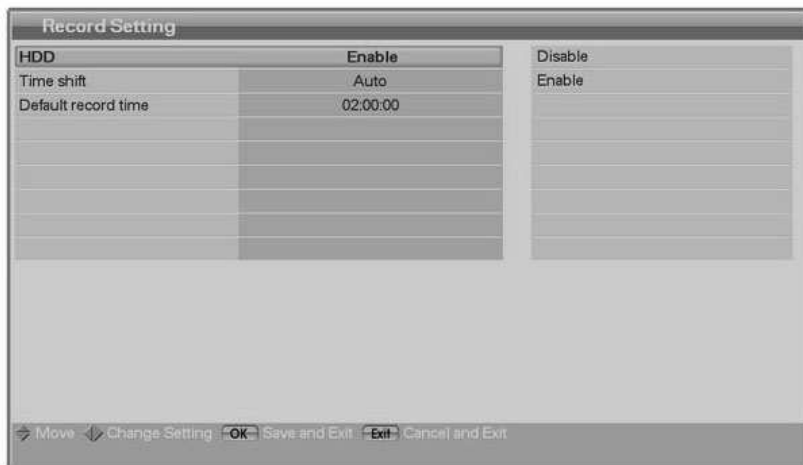
You can set Time shift function as Auto or Manual. And you can set Default record time.

HDD

If you select 'Enable', HDD will be always turned on.

If you select 'Disable', HDD will be activated only when STB performs PVR functions such as recording.

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 5minutes to 10 hours.

5.4.3 HDD Information
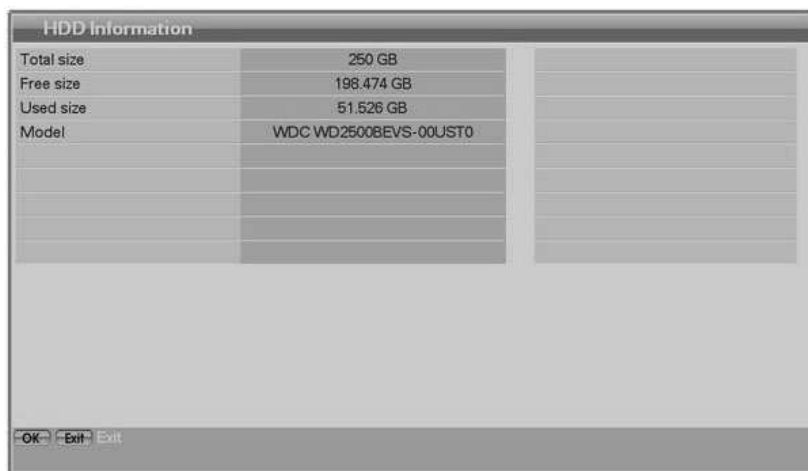
You can see the capacity of HDD such as Total size, Free size, Used size and the model name of HDD

Notice, even when you have format the hard disk never are 100% free.

The receiver reserves a part for the time shift function.

This can not be change.

5.4.4 Format HDD
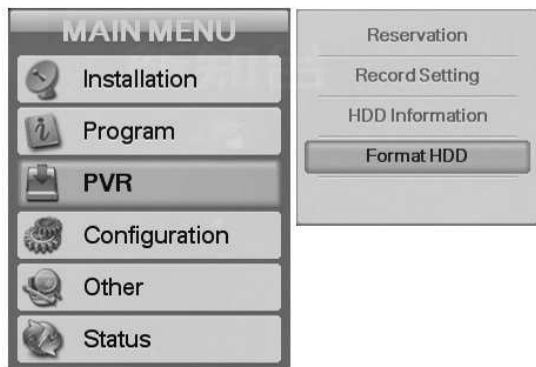
If you press the **OK** button, you can delete all files in HDD permanently.

5.5 Configuration

<table>
<tr><td>MAIN MENU</td><td>OSD Display</td></tr>
<tr><td>Installation</td><td>TV Output</td></tr>
<tr><td>Program</td><td>Time Setting</td></tr>
<tr><td>PVR</td><td>Parental Control</td></tr>
<tr><td>Configuration</td><td>Language</td></tr>
<tr><td>Other</td><td></td></tr>
<tr><td>Status</td><td></td></tr>
</table>

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

OSD Display		
Banner display time	5 sec	Hide
Screen Saver	60 min	1 sec
OSD Transparency	+20%	5 sec
Teletext Transparency	+20%	10 sec
VFD Display	Channel Number + Name	20 sec
MainMenu Position	Left-Top	30 sec
Menu small screen	Full	Always

◆ Move ◆ Change Setting OK Save and Exit Exit Cancel and Exit
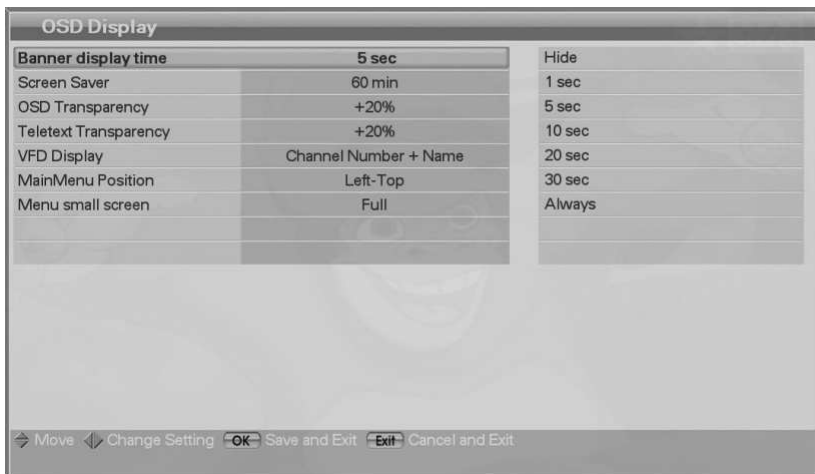
Select the option using the ▲ / ▼ / ◀ / ▶ button.

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.

VFD Display:

Here you can choose if the VFD display show permanent channel number and name or if the receiver switch automatically after he has display number and name to only name.

With the last option there is more space for show the channel name longer.

Main Menu Position :

Change the Main menu position(Left-Top, Right-top, Left-down, Right-down)

Menu small screen :

View the Small TV screen in the submenu (Small, Full, Disable)

5.5.2 TV Output
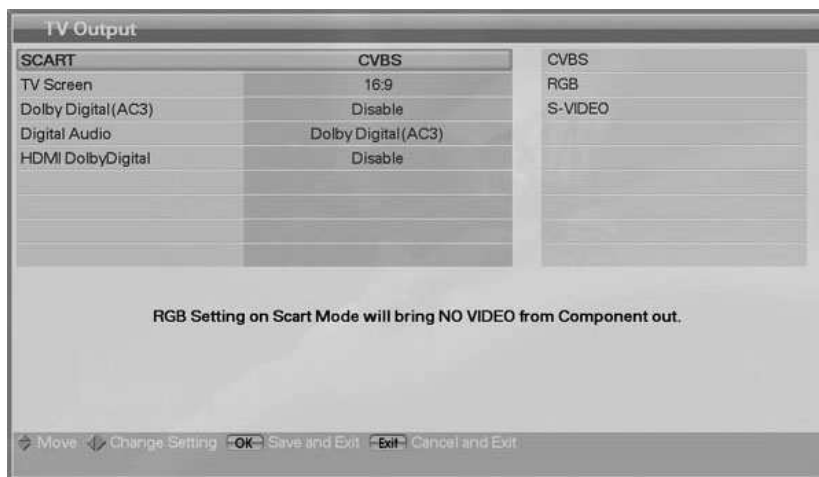
Select the TV output option using the ▲ / ▼ / ◄ / ► button.

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

SCART:

Select what kind of signal you will use on connector TV-SCART:

(RGB,S-Video, CVBS=FBAS).

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.

HDMI Dolby Digital:

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

5.5.3 Time Setting
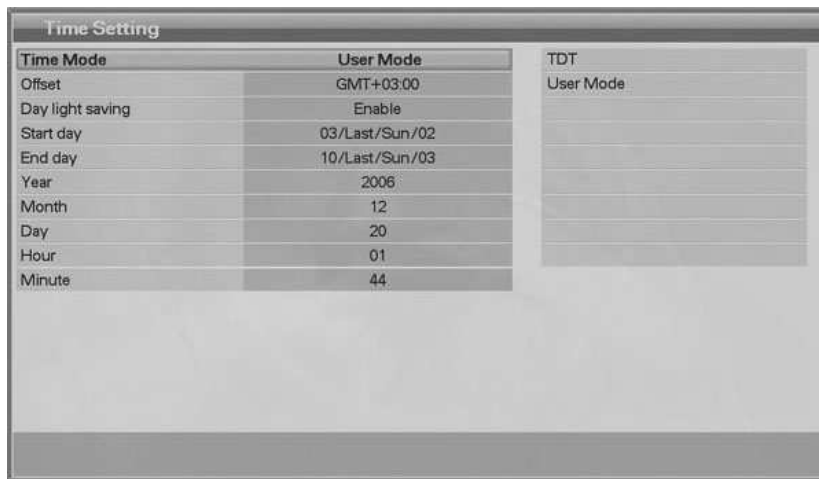
Setting current time using the ▲ / ▼ / ◄ / ► button.

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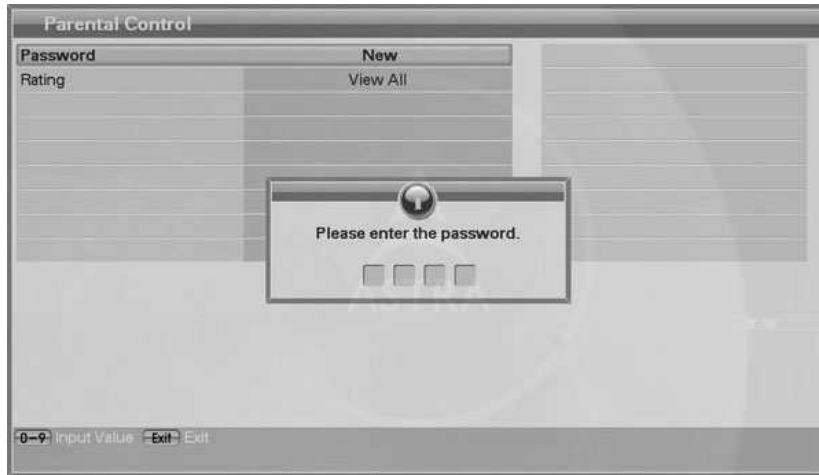
If you want to change the password, press the ◀ / ▶ button, following message requiring new password will be displayed.

Change the password into new one by numeric button.

To ensure your change, you are supposed to input a password once more.
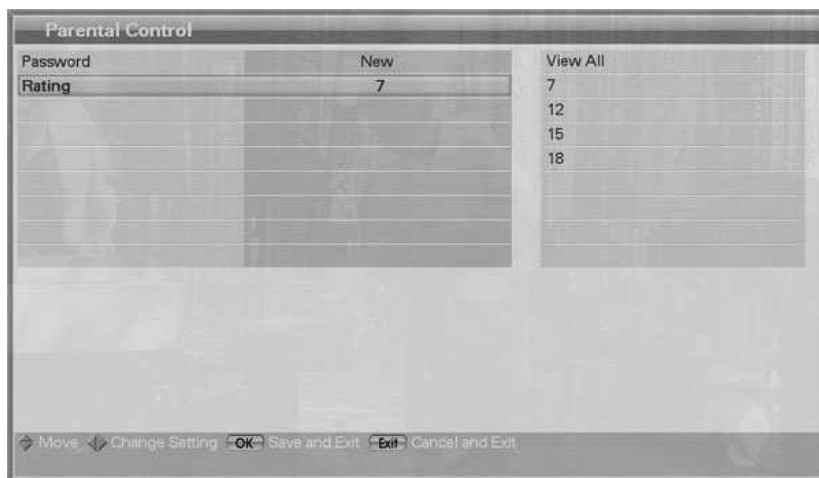
Select your desired rating level using the ◀ / ▶ button.

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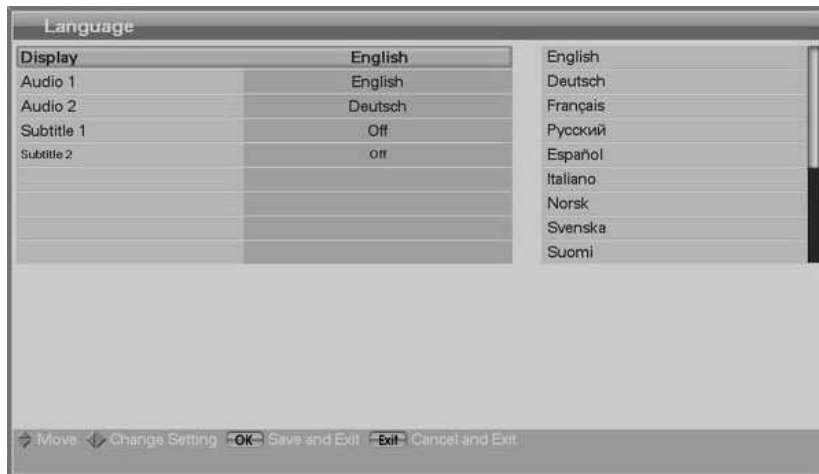
Select the language options using the ▲ / ▼ / ◀ / ▶ button.

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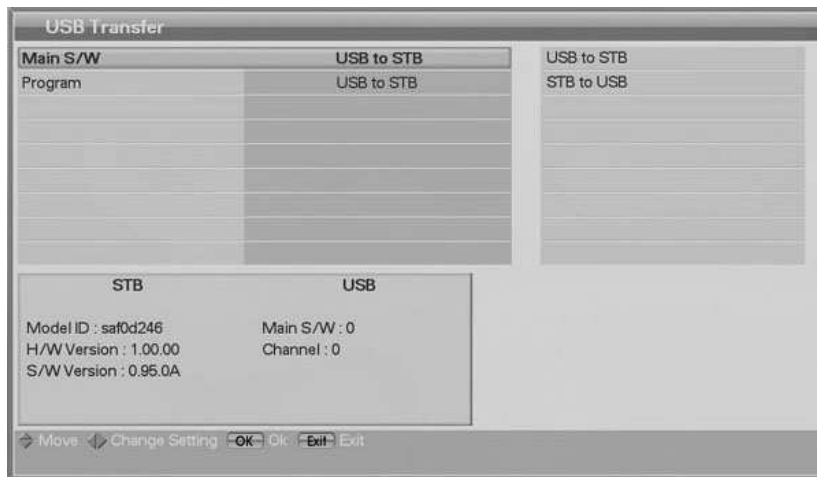
Select Main S/W if you want to transfer the software to one USB device or if you will load it.

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

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

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

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

Model ID:
Identify number of your receiver

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

Hardware-Version:
Installed hardware

Channels: Displayed

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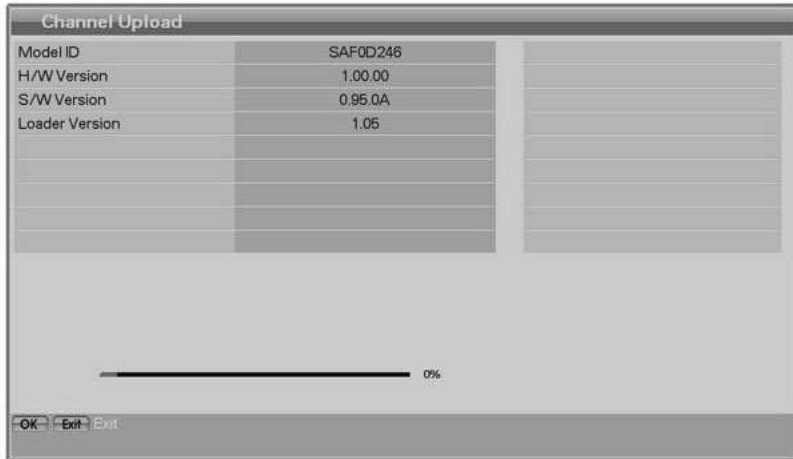
Connect the receiver with other receiver or PC through RS-232 cable.

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

You can watch the transfer status of software.

5.6.3 Software (S/W) Upload
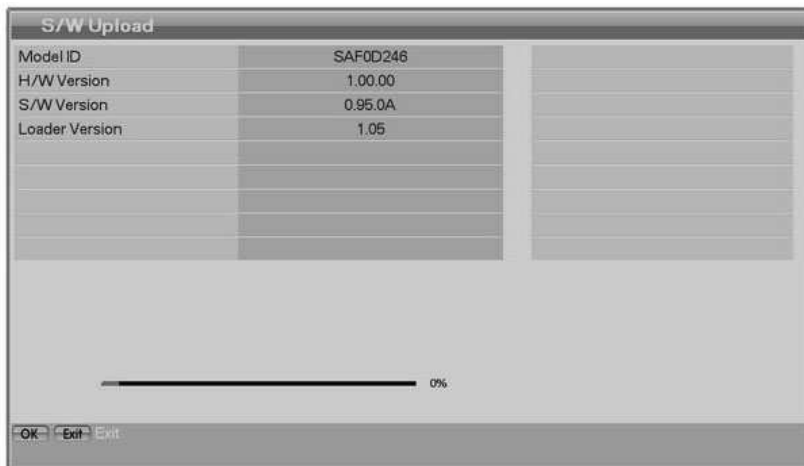
Connect the receiver with other receiver or PC through RS-232 cable.

For the target receiver, turn the AC Power off, then turn on again.
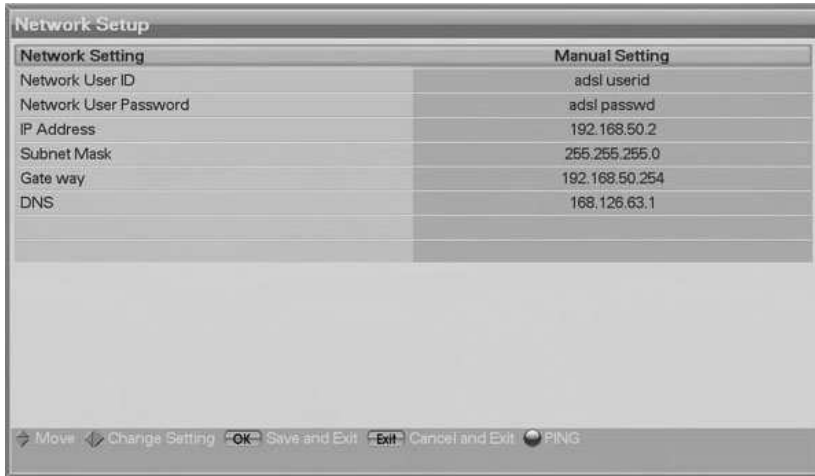
You can watch the transfer status of software.

5.6.4 Network Setup

5.6.4.1 Internet Protocol(TCP/IP)

You can set the internet Protocol

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

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.

Main S/W Download

Server Address Setting	
Host IP	192.168.123.123
URL	

⇕ Move 0~9 Input Value ⟋ Change Setting OK Save and Exit Exit Exit ● Start Download

Main S/W Download

Server Address Setting	
Host IP	000.000.000.000
URL	www.aaaaaa.com

⇕ Move ⟋ Change Setting OK Save and Exit Exit Exit ● Start Download

5.7 Status
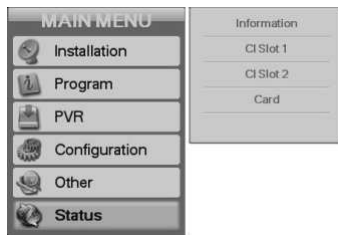
Information: Display the system information of receiver.

CI-Slot 1: Information about the used CAM module in slot 1.

CI-Slot 2: Information about the used CAM module in slot 2.

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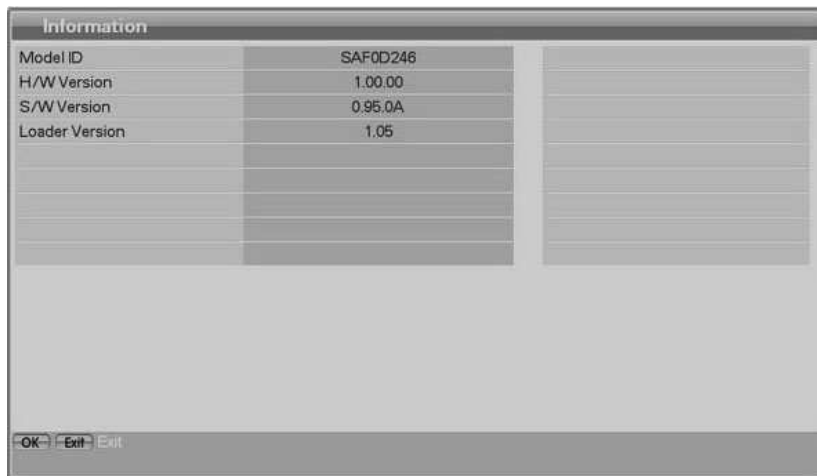
You can watch the system information such as Model ID, Hardware version, Software version, and Loader version.

5.7.2 CI-Slot (Common Interface)

You can see not only Free To-Air services, but also scrambled services, using the Conditional Access Modules (CAM).

This STB supports Common Interface of two slots.

If you see scrambled services, contact your service provider or distributor.

Common Interface module and smart card depend on the service provider.

6. Viewing General Information

6.1 Service Information

Teletext Subtitle Alternative Audio Lock PayTV Dolby Parental Multifeed

```
□ 0023 SD  Arirang_TV MAIN                    T ▤ 📢 🔒 $ 📺 18 M 576i
02:00~01:59  Current                          ◷ ▥▥▥▥▥▥▥▥▥  56%
02:00~01:59  Next                               ▥▥▥▥▥▥▥▥▥  54%
All - C-Asiasat 3S 3755V 4418 7/8        07/Oct 07:09
```
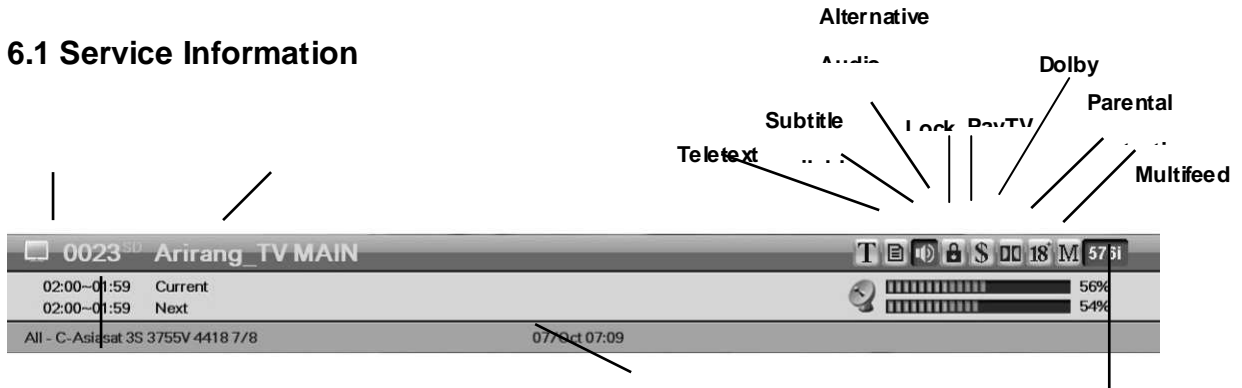
Current event EPG

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
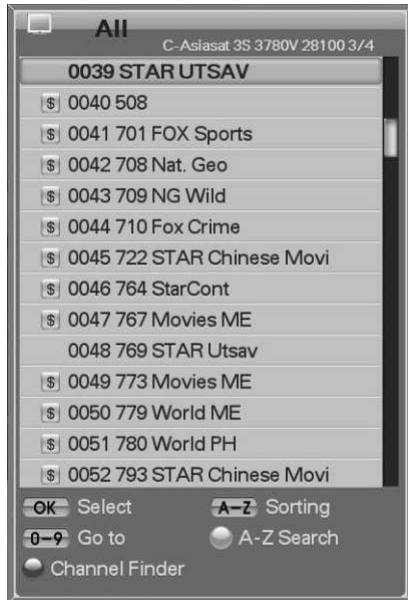
6.3.1 Watching Channel

While watching TV or listening to Radio, you can watch the channel list. Press the **OK** button to display the channel list.
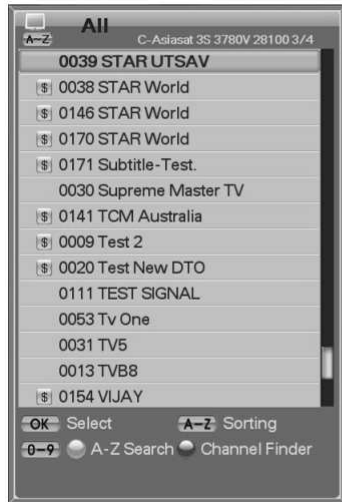
Press the **OK** button or **AtoZ** button. If you want to view the sorted channel list, press the **AtoZ** button.

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

STAR UTSAV

Arirang_TV MAIN
NOW
Russia Today
TV5
Supreme Master TV
Al Jazeera Internatio
DW-TV ASIA
TEST SIGNAL
9XM_A
9X_A

⚪ Reset

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

6.3.3 Quick Find

All
C-Asiasat 3S 3780V 28100 3/4
0039 STAR UTSAV
$ 0040 508
$ 0041 701 FOX Sports
$ 0042 708 Nat. Geo
$ 0043 709 NG Wild
$ 0044 710 Fox Crime
$ 0045 722 STAR Chinese Movi
$ 0046 764 StarCont
$ 0047 767 Movies ME
0048 769 STAR Utsav
$ 0049 773 Movies ME
$ 0050 779 World ME
$ 0051 780 World PH
$ 0052 793 STAR Chinese Movi

OK Select   A-Z Sorting
0-9 Go to   ⚪ A-Z Search
⚪ Channel Finder

Channel Finder
FA

←BS	A	B	C	D	E	F	G	H
⎵	I	J	K	L	M	N	O	P
A-a	Q	R	S	T	U	V	W	X
Enter	Y	Z	0	1	2	3	4	5
Del	←	⎵	6	7	8	9	[	]

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 than 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-Modus

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-Modus

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

6.6 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.
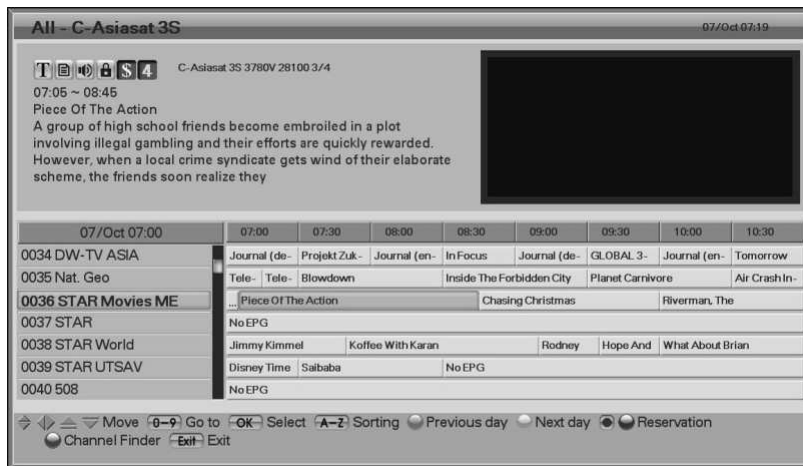
Press the ◄ / ► button to change time interval.

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

The receiver has different possibilities for record events.

This will be control by the remote control.

For this the hard disk must be active.

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 I▶

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.

PVR List ▤

The **PVR List** button open the **File List** window.

With the file list for see recorded events you only can use the internal hard disk.
Play recordings from external USB devices is not possible.

JPEG ▤

The Photo album function can show you pictures in JPEG file format.

For this you can show it from internal hard disk or external USB devices.

7. Display Movie and Picture

7.1 File list / Play function

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

Recorded movie   Folder(Directory)
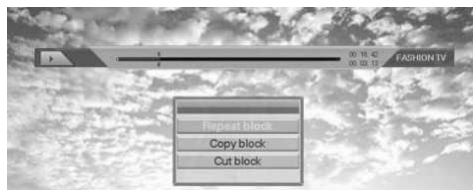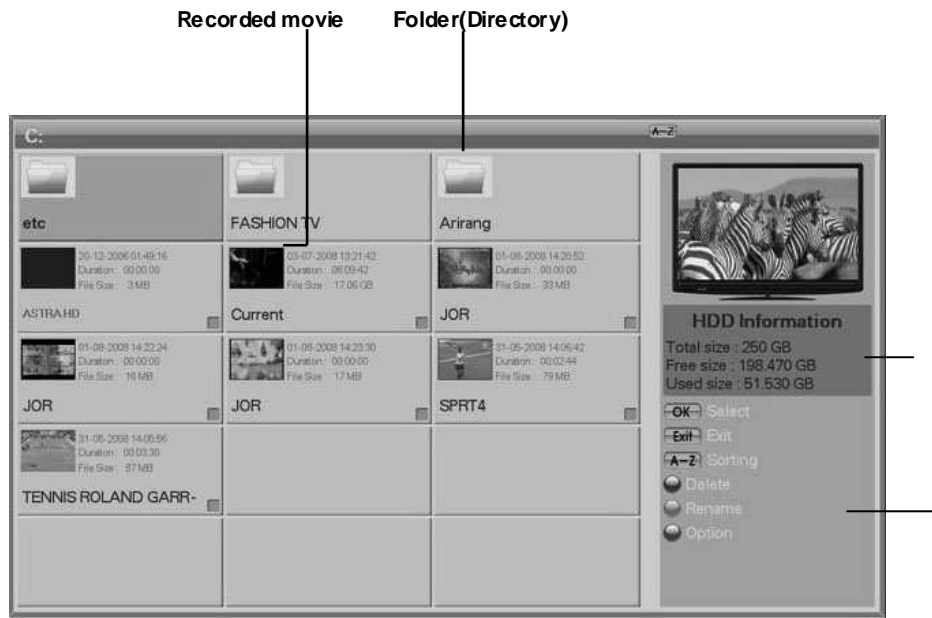
Play a recorded movie

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.
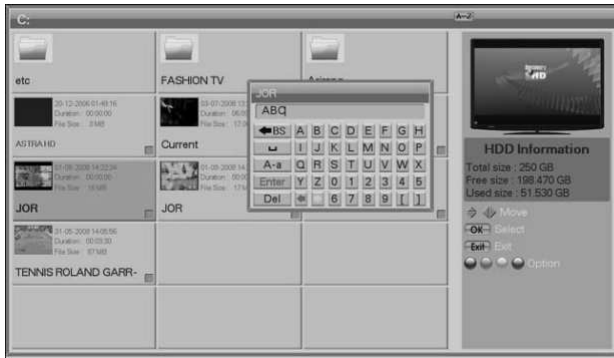
Rename a file

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

Lock a file

Select the file by using the
buttons ◄ / ► / ▲ / ▼ and than press **Blue**.
Open the one selection window.
You can using ▲ / ▼ buttons select **Lock**

Copy a file
Select files to copy by pressing the **Yellow**
button.
Press the **Blue** button after selecting files to
copy.
Select **File Copy To** menu in the pop-up
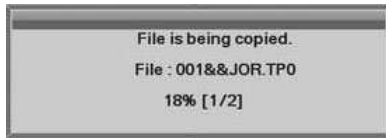
window.
Select connected device in the pop-up window.
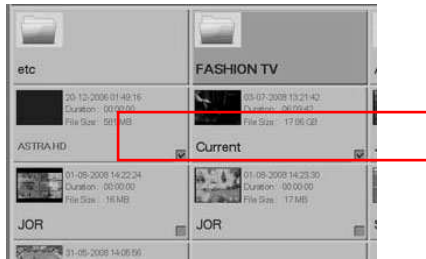
Move a file
Select files to move by pressing the **Yellow** button.
Go to the folder you want to move selected files.
Files will start to move into the current folder if you press the **FUNC** button.
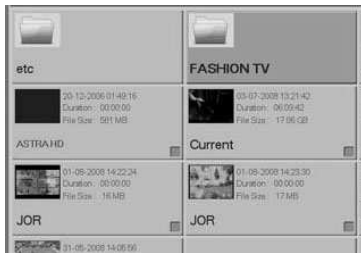
7.2   Photo album

The photo album can be open by press the button **JPEG**.

Photo album [/usb1/PICTURE/]

IMGP3651 IMGP3652
IMGP3653 IMGP3654 IMGP3655
IMGP3656 IMGP3657 IMGP3658

File Information

9 File(s), 17882 KB

OK Select
Exit Exit

Hard disk information

Function Information

The controls for the photo album are the same like the file list.

View
Slide show
Exit

The functions Show, Delete etc. will be select by the buttons red

Show a picture

Select one picture 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 JEPG-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.

8. Movie edit and cut function

8.1 Edit and Cut function
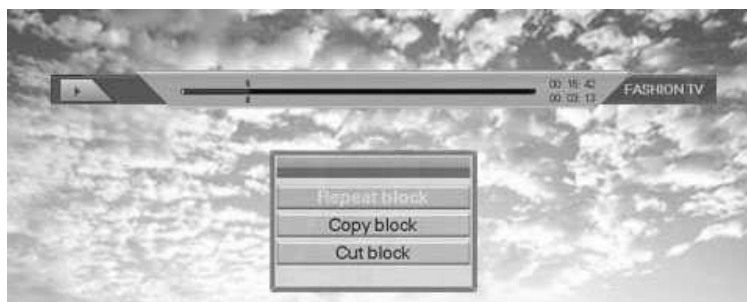
A-B

The **A-B** button start during you plays a record cut function.

For this start a recorded movie when you will cut out for example a commercial block.

Press one time **A-B** before the block and a second time after the

Now you can choose if you want to play this block endless or if you want to copy it.

If you select copy, a new file will be created.

The last selection is delete block And after press **OK** the block will be cut out from the movie.

During the receiver work fort his you see the information windows from left side.

MARK / JUMP

With this you can set marker points during play one record. If you see the Next time you can go by **JUMP** button to these points.

9. USING THE UNIVERSAL REMOTE CONTROL

Before you use the universal remote control to your device what was you want to control, it must first be programmed (set-up). Please read this guide carefully to make sure the setup is done properly and that you are getting the most out of your URC101 remote control.

The remote control runs on 2 x AAA batteries. To insert or replace the batteries, follow these steps:

a) Push the catch on the battery cover upwards and pull the back cover off the main part.

b) Carefully remove the old batteries then insert the new batteries, matching the + and – signs.

c) Once the batteries are in, put the cover back on, making sure the catch clicks into place.

When you are using the remote control, please make sure the information as below:

● You point your universal remote control at the infrared part of your device.

● Ensure there is nothing blocking the infrared receiver on your device.

● Do not leave flat batteries in your universal remote control, as they could leak and void your warranty.

● Always replace the batteries at the same time, do not mix the old and new batteries or mix different battery types.

● When you throw away old batteries, make sure they done in due consideration with the environment. Please consult your local council or recycle department, for nearest collection point.

● Do not drop or throw your universal remote control, as you may damage the unit and the circuitry inside.

● Do not let the remote control come into contact with any liquids.

● Use a dry cloth to clean your universal remote control to make your remote control last longer.

SETUP THE REMOTE CONTROL TO WORK WITH YOU TV

SET-UP **the brand code on the remote control**

You can set-up the remote to control your TV what you want to control, please find out the manufacturer of you TV in the **BRAND CODE LIST** section and note the three-digit code. The setup procedure as the following step:

1. Turn your TV on.

2. Press and hold the [SETUP] and TV key, keep about a bout 3 seconds at the same until the LED indicator lights up.

3. Follow the sequence to key in the 3-digis code numbers which you found from the *Brand Code List,* the LED indicator will be flash once when you press the number key every time.

4. After key in the 3-digits code number, if the code number is correct, the LED indicator will be turn off what was the remote control save the code and exit the set-up mode. If the code number is not in the list, the LED indicator will flash twice then keep on light, so please go back to the step 3 and set up again.

5. Please control your TV with the [POWER] key on the remote control, check your TV power off or not, please go to the step 6 for power off or repeat the step 3 for not.

6. Setup is finished.

Remark:

a) Anytime you want to leave the code setup mode, please press any keys except the number keypad, the LED indicator will turn off after flash any times.

b) The remote control will be leaved the Setup mode automatically if you have not press any key after 30 seconds.

SEARCH **the brand code on the remote control**

If you can not identify a suitable Brand Code for your equipment from the **Brand Code List** (many lesser known brands codes may be present but not listed under that brand), you may try our database search method. During the Search the selected LED indicator will flash at various speeds. The entire search procedure may

take several minutes to complete. The following instruction uses your television as an example for set-up using the database Search method.

1. Turn your TV on.

2. Press and hold the [SET] and [TV] key, keep about 3 seconds at the same time until the LED indicator lights up.

3. Press and release the [CH+] or [CH-] key and the LED indicator will be flashed.

4. Aim the remote control at your TV, please press and release the [CH+] or [CH-] key slowly, the remote control will transmit the [POWER] Signal of next Table.

5. Check the TV activate or not. Go to procedure **6** for activate or repeat procedure **4** for not.

6. Press the [OPTION] key to save the setup on remote control and exit the Search Mode, then the LED indicator will be turned off.

Remark:

1. During the search mode, press the [CH+] key set to FORWARD SEARCH, and press the [CH-] set to BRCKWARD on the database of remote control.

2. During the Search mode, the remote control will be didn't save the setup and exit the Search mode if you press any key except the [CH+] or [CH-] key.

3. The remote control will be leaved the Setup mode automatically if you have not press any key after 30 seconds

QUICK SEARCH the brand code on the remote control

You can use this feature to find out the suitable control code quickly and don't press any key. Please use the feature following these steps as blow:

1. Turn on you TV which you want to control.

2. Press and hold the [SET] and [TV] key, keep about 3 seconds at the same time until the LED indicator lights up.

3. Press and release the [POWER] key to inter the Quick Search mode, and LED indicator will flash ceaselessly.

4. Aim the remote control at your TV, the remote control will transmit the [POWER] Signal of next Table automatically.

5. Check the TV activate or not. Go to procedure **6** for activate or repeat procedure **4** for not.

6. Press the [OPTION] key to save the setup on remote control and exit the Search Mode, then the LED indicator will be turned off.

Remark:

1. During the Search mode, the remote control will be didn't save the setup and exit the Search mode if you press any key except the [OPTION] key.

2. The remote control will be exit the Search mode automatically when all codes was search finish on the database of remote control.

Checking the Brand Code on the remote control

There are 3-digits brand codes for TVs. You can check and show any one of digits form the following step:

1. Press and hold the [SET] key and press the selected digit of the number keypad, e.g. [1], [2], or [3].

2. Release both keys and observe the LED on the remote control.

3. The number of LED flashing times is the control code of the selected digit (No flashing when this digit in zero).

Example: checking the brand code number of in factory setting status.

1. Press the [SET] key at the same time, the LED no flashing --- the 1st number is zero.

2. Press the [SET] key at the same time, the LED flashing once --- the 2nd number is one.

3. Press the [SET] key at the same time, the LED flashing night times --- the 3rd number is night.

So the current brand code number is **018**

Lock the brand code on the remote control

If the brand code setup was finished. You can use this feature to lock TV device on the remote control. When after the device Lock has processed, the brand code of the

device will be locked permanently and can not changed by SET-UP or SEARCH. The locking procedure is:

Enable Lock

1. Press and release the TV key.
2. Press and hold the [SET] and [OK] at the same time until the LED indicator flash once.

Disable Lock

1. Press and release the TV key.
2. Press and hold the [SET] and [OK] at the same time until the LED indicator flash twice.

BRANDE CODE

TV	CODE										
AIWA	504	508	509	651	627						
AKAI	047	581	232	684	536	733	091	616	467	712	514	721
	075	582	302	701	537	750	144	648	503	713	173	660
	080	591	383	706	538	755	161	657	508	714	528	725
	081	593	398	708	181	678	166	659	510	717		
BANG & OLUFSEN	701	640	748								
BEKO	658	676	660	215	216						
BENQ	246	248									
BLAUPUNKT	202	750	754	622	690	553	721	728	657	221	203	206
	090	091	092	093	106	121	200	201			
CASIO	638	660									
CITIZEN	166	000	561	291	034	035	046	405			
DAEWOO	012	510	167	616	035	528	291	657	040	585	406	660
	013	520	232	648	039	565	398	658	046	598	416	701
	422	706	423	712	427						
FERGUSON	746	621	514	707	759	717	729	670	232	656	210	659
	094	101	110	730	125	762	129	139	143	148	153	183

184

Brand												
FIDELITY(UK)	123	616	575	718	722	514	726	678	753	678	510	717
	111	661										
FILMNET	140											
FILSAI	708	616										
FINLANDIA	753	707	711	503	717	661						
FINLUX	081	620	701	219	681	179	642	709	619	698	149	640
	119	621	704	232	691	190	660	733	708	614	697	195
	125	625	705	514	693	192	663	735	680	758	556	695
	128	636	706									
FIRST LINE	701	565	232	552	660	528	081	616	708	510		
FISHER	019	616	135	676	084	638	190	706	107	642	503	715
FISHER	081	632	179	691	102	640	336	710	126	669	510	724
	514	735	755	554	754							
FUJITSU	664	737	073	712	556	706	561	725	259	224	425	058
FUNAI	467	510	536	514	707	759	717	729	754	552	708	562
	689	425	012	414	076	440	143	725				
GOLDSTAR(LG)	037	507	708	417	616	232	525	717	435	698	406	536
	038	510	711	431	619	291	526	721	504	701	746	405
	046	514	713	433	660	398	529	726	505	707	530	731
	156	523	714	434	676							
GRUNDIG	090	567	194	660	121	622	236	719	566	737	235	716
	091	594	195	688	185	626	237	721	192	637	563	730
	106	616	232	698	187	636	437	723	119	619		
HARMAN_KARDON	224											
HITACHI	002	503	718	175	642	081	551	729	181	676	403	707
	008	505	722	177	646	084	556	730	273	691	406	711
	046	509	726	178	659	095	561	731	274	701	418	713
	051	514	727	179	660	099	597	733	275	704	419	714
	078	516	728	180	661	102	599	754	291	705	497	715
	706	502	717	118	398	114	613					
HUMAX	435											
HYUNDAI	700											
KENWOOD	166	341										
LG (GOLDSTAR)	037	530	293	661	123	617	406	669	291	659	490	676
	038	536	398	665	156	646	417	671	292	660	505	677
	046	616	405	667	232	657	467	674	687	718	510	683
	715	746	529	685								

LOEWE	063	224									
LOEWE OPTA	720	738	660	614	127	701	640	232	083		
MARANTZ	232	702	660	701	415	224	166	657			
METZ	660	709	553	559	580	688	030	743	721	640	742	189
	091	121	155	550							
NEC	018	505	167	536	084	514	405	549	596	500	555	754
	044	506	168	537	102	516	408	554	708	538	166	528
	072	510	398								
NOKIA	619	698	725	728	660	503	672	684	686		
NORDMENDE	174	514	691	748	656	743	730	175	749	181	180	223
	722	095	099	717	108	109	112	748	139	161	173	
PANASONIC	018	508	229	660	118	513	306	713	224	615	433	726
	064	509	232	691	169	514	401	714	498	755	442	730
	089	510	304	701	182	541	409	717	505	751	447	750
	104	512	305	712	220	566	411	722	449		
PHILIPS	021	514	277	619	123	529	391	688	215	598	731	715
	031	523	291	628	135	530	406	698	224	612	734	717
	066	525	307	640	166	548	410	701	228	616	759	721
	113	526	308	657	186	561	437	702	232	618	707	729
	122	528	309	660	208	562	507				
PIONEER	424	411	412	232	656	560	614	702	730	660	658	717
	008	009	045	056	291	005	166	065	071	424	175	095
SAMSUNG	034	437	641	070	524	669	046	503	655	291	529	706
	036	467	650	143	525	676	052	505	657	325	530	726
	043	490	652	232	526	701	069	510	660	327	566	746
	398	572	405	616	406	618					
SANYO	006	503	329	631	126	536	335	672	219	556	497	725
	016	508	330	638	135	537	336	676	328	616	500	727
	019	509	331	642	137	538	414	691	755	756	502	754
	084	510	332	660	165	549	467	706	757	102	522	334
	085	514	333	662	190	554	494	708	669		
SCHNEIDER	081	580	698	191	632	711	148	624	708	232	660	714
	107	616	701	208	648	712	179	628	710	510	661	715
	122	619	707	212	659	713	528	562	691	514	664	717
	678	724	735	729	726	759					
SHARP	004	339	510	084	408	694	291	452	754	170	444	721
	007	340	511	088	425	712	337	499	755	172	451	730
	046	406	552	758	407	649	338	055			

Brand	Codes											
SHIVAKI	660											
SIEMENS	726	721	622	232	660	688	755	657	221	206	202	203
	085	090	091	717	121	726	200	201				
SONY	041	437	534	204	514	701	342	527	761	341	526	760
	084	501	549	230	523	703	343	529	165	510	681	530
	138	507	584	321	525	754	396					
TATUNG	018	352	346	568	165	514	349	653	706	703	351	691
	024	353	347	614	232	549	350	660	132	510	348	616
	701											
TCL	459	507	478	529	465	525	483	536	485	538	644	532
	460	514	479	530	468	526	484	537	496	629	482	523
	462											
TELEFUNKEN	095	184	437	139	205	730	097	197	596	161	217	175
	096	196	570	154	207	761	110	198	656	173	223	232
	121	200	670	174								
THOMSON	099	218	173	620	114	548	180	670	161	570	730	707
	108	232	174	656	121	553	181	694	729	699	737	717
	112	514	175	660	160	563						
TOSHIBA	010	438	359	510	619	102	497	362	536	704	204	509
	024	439	359	516	636	146	502	395	537	705	436	616
	034	448	360	517	694	176	503	407	538	738	592	754
	084	467	361	519	701	195	508	412				

Additional Information

1. Technical Specifications

A. Input signal

Frequency range	950 MHz - 2150 MHz
Input level	44dBµV - 84dBµV
Impedance	75 Ohm
Demodulation	DVB-S QPSK, DVB-S2 QPSK, DVB-S 8PSK

B. Video

Video-Decoding	MPEG-2, H.264/AVC
But rate	1,5 – 15 Mbit/s

C. Audio

Audio-Decoding	MPEG-1/2, Layer 1/2
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	24 W
LNB voltage	13 / 18 V ; 14 / 19 V
LNB current	0,5 A max.
Control signals	22 kHz, 0,6 Vss, Tone Burst DiSEqC 1.2 USALS Unicable

E. Connectors

Component	Y, Pb, Pr
HDMI	1

Scart	2 (TV + VCR)
Optical audio S/PDIF	1 (AC 3 – Datenstrom)
Video	1 (RCA)
Audio	L + R (RCA)
RS-232	1 (D-Sub)
USB 2.0	3x variant A, 1x variant B

F. Weight / Dimensions

Weight	2,6 kg (netto)
Dimensions (BxHxD)	36 x 6 x 28 (cm)

2. 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 to14/19 V.
Parental protection can not deactivate	Code is wrong or forgotten	Reset the code, check chapter 5.3.5

3. 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.