SAFETY PRECAUTION

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to "dangerous voltage" and to prevent from a risk of electric shock.

Warning:

To reduce the risk of electric shock, don't open the cabinet. Refer servicing to qualified personnel only

The exclamation point within an equilateral triangle is intended to alert the user to important operating and maintenance (servicing).

WARNING: Do not use this STB where contact with or immersion in water is a possibility. Do not use near flower vase, washbowls, kitchen sinks, laundry tubs, swimming pools, etc.

WARNING: Do not put the candle or lamp stand on the cabinet; otherwise, there is the danger of fire.

WARNING: The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the unit. If you are not sure of the type of power supply (for example, 120 or

230 V) to your home, consult your local dealer or local power company.

WARNING: This product installs diodes. Do not open the cabinet or touch any parts in the inner mechanism. Consult your local dealer for technical service if the opening is required

Note: To ensure proper use of this product, please read this User manual carefully and retain for further reference.

Unit Cleaning: After the unit power is turned off, you can clean the cabinet, panel and remote control with a soft cloth lightly moistened with a mild detergent solution.

Attachments: Never add any attachments and/or equipment without the manufacturer consent; as such additions may result in the risk of fire, electric shock, or other personal injury.

Locating: Slots and openings in the cabinet are provided for ventilation to protect it from overheating. Do not block these openings or allow them to be blocked by placing the STB on a bed, sofa, or other similar surface, nor should it be placed over a radiator or heat register.

Power-Cord Protection: Place the power-supply cord out of the way, where it will not be walked on. Please take special attentions to cords at plugs, convenience receptacles, and the point where they exit from the unit.

I

Object and Liquid Entry: Never put objects of any kind into this STB through openings, as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill any liquid on the STB.

Note: Moisture may be formed on the lens In the following conditions:

➢ When the unit is suddenly moved from a cold environment or an air-condition room to a warm place.
➢ Immediately after a heater has been turned on.
➢ in a steamy or very humid room.

If the moisture forms inside the unit, it may not operate properly. To correct this problem, turn on the power and wait about two hours for the moisture to evaporate.

Parts Replacement: When the unit parts need to be replaced, user should make sure the service technician use the replacement parts specified by the manufacturer or having the same characteristics as the original part. Unauthorized replacement may put the unit In the risk of fire, electric shock or other hazards.

Safety Check: After all the maintenances and repairs are done, user is required to request the service technician to conduct the overall safety check to ensure the machine is In the proper condition
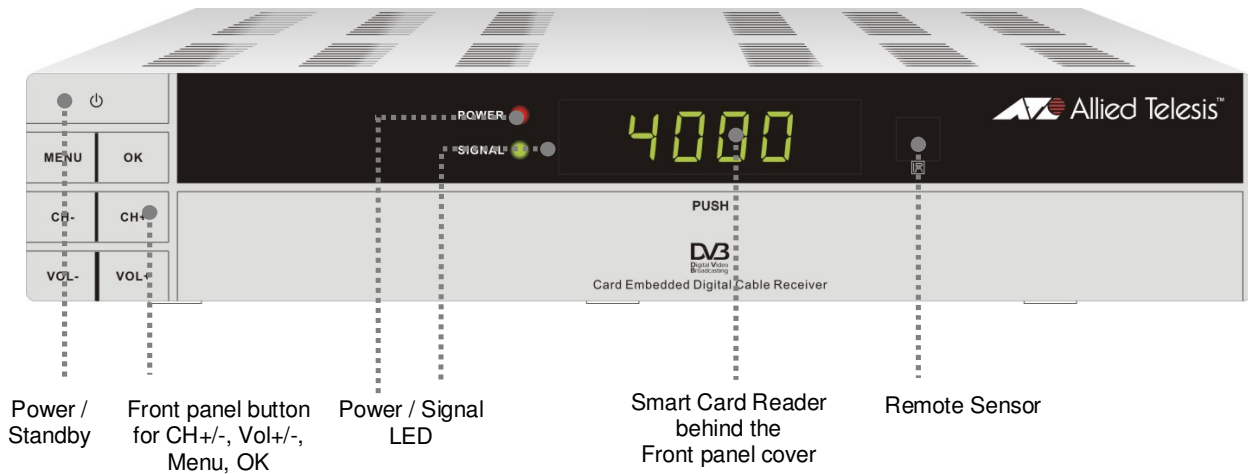
CONTENTS

1. Receiver Description & Remote Control

1.1 RECEIVER DESCRIPTION

This receiver allows you to receive unencrypted (free-to-air) and encrypted (depending on smart card) digital satellite programs over a satellite antenna for personal, non-commercial use.
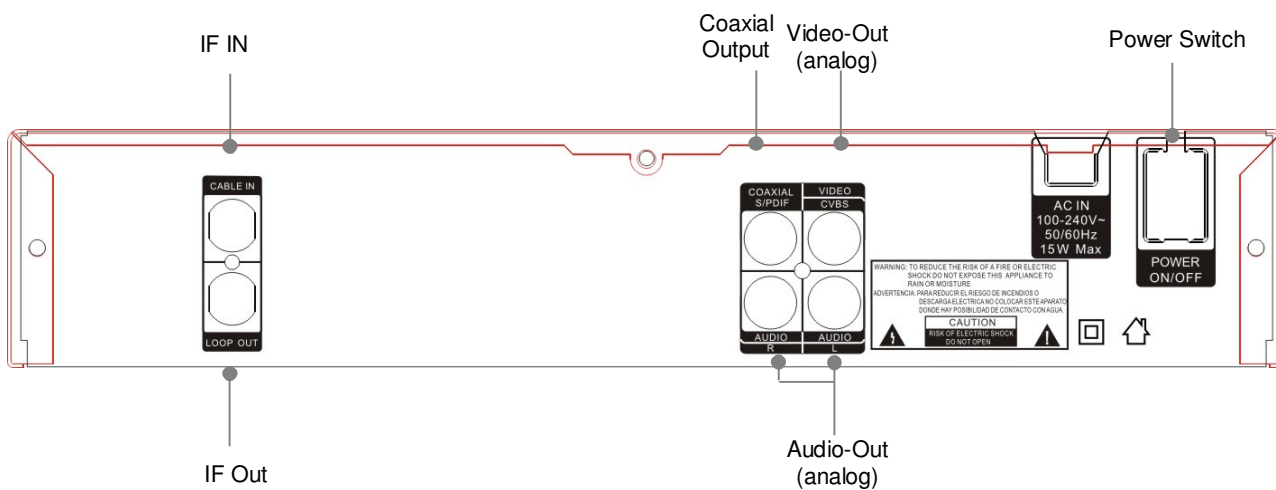
The satellite antenna must be pointed toward the desired satellite. The receiver will search for additional new channels as soon as you launch the automatic channel search for this satellite. You can also add satellites that have not been pre-programmed. All receiver settings can be easily configured via the user interface (menu) on the TV screen.

1.2 Front Panel Description

| Power / Standby | Front panel button for CH+/-, Vol+/-, Menu, OK | Power / Signal LED | Smart Card Reader behind the Front panel cover | Remote Sensor |

1. Standby: Switch to power on or Stand-by-Mode

2. Display (4-Digit/7-Segment): Show power and lock status as well the related channel number. In standby mode you will see current time.

3. Remote Sensor: Receipt of Infrared Signals.

4. VOL+/-: Change volume level in TV Mode and to navigate in menu mode.

5. MENU: to open or Exit main menu.

6. OK: to open sub menu or to open channel list.

7. CH+/-: change of services or to navigate in menu.
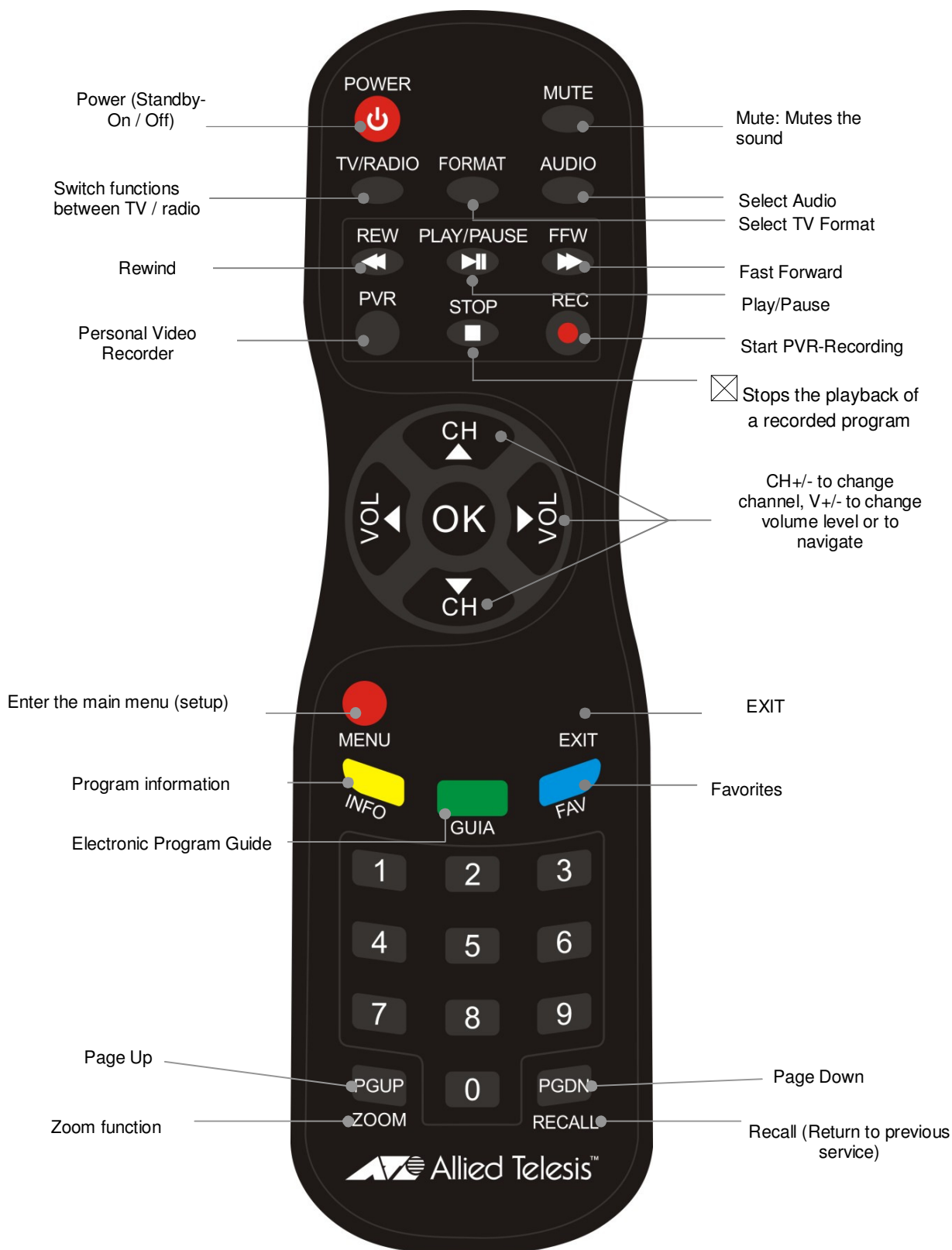
1.3 REAR PANEL DESCRIPTION

IF IN   Coaxial Output   Video-Out (analog)   Power Switch

CABLE IN

COAXIAL S/PDIF   VIDEO CVBS

AC IN
100-240V~
50/60Hz
15W Max

WARNING: TO REDUCE THE RISK OF A FIRE OR ELECTRIC
SHOCK DO NOT EXPOSE THIS APPLIANCE TO
RAIN OR MOISTURE
ADVERTENCIA: PARA REDUCIR EL RIESGO DE INCENDIOS O
DESCARGA ELECTRICA NO COLOCAR ESTE APARATO
DONDE HAY POSIBILIDAD DE CONTACTO CON AGUA.

POWER
ON/OFF

AUDIO R   AUDIO L

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

LOOP OUT

IF Out

Audio-Out
(analog)

1. IF IN Satellite input

2. IF OUT: Satellite tuner output

Note: the operation of another receivers in loop mode will limit the number of services.

3. Coaxial Output

4. VIDEO / AUDIO hi-fi-Out for your Hi-fi System of Monitor

5. Power ON/OFF

6. AC IN Power cord

1. 4   Remote Control

Power (Standby-On / Off)

POWER

MUTE

Mute: Mutes the sound

Switch functions between TV / radio

TV/RADIO   FORMAT   AUDIO

Select Audio

Select TV Format

Rewind

REW   PLAY/PAUSE   FFW

Fast Forward

Personal Video Recorder

PVR   STOP   REC

Play/Pause

Start PVR-Recording

⊠ Stops the playback of a recorded program

CH ▲

VOL ◀   OK   ▶ VOL

▼ CH

CH+/- to change channel, V+/- to change volume level or to navigate

Enter the main menu (setup)

MENU   EXIT

EXIT

Program information

INFO   GUIA   FAV

Favorites

Electronic Program Guide

1   2   3

4   5   6

7   8   9

Page Up

PGUP   0   PGDN

Page Down

Zoom function

ZOOM   RECALL

Recall (Return to previous service)

Allied Telesis™

2. Basic Operations

2.1 Turn on STB

First, press the [Device's Main Power] to turn on the unit. When the STB is first used, there will play the first channel from the default Channel List. If the STB is not first used, STB will play the same channel as last time before turning off.

2.2 Power

1. Press [Power] Key can enter the Standby state.

2. In Standby state, press [Power] Key again can call back the unit and go on play the previous channel.

3. User can also disconnect the device's main power to end the Standby state

2.3 CH ▲▼

In full screen, press [CH▲▼], to change channel

2.4 VOL◄►

In full screen, press [VOL◄►], to adjust volume.

2.5 Channel Number

In full screen, use number key and press [OK] on the Remote Control Unit to change channel.

2.6 Mute

1. Press [Mute] key to mute the sound and the screen will show up mute OSD.

2. Press [Mute] again to restore sound.

2.7 Pause

1. In playing mode, press [Pause] key, the picture will be paused, but the sound of the channel will still continues.
2. Press [PAUSE] key again, the screen's picture will skip over to the current playing picture, and the sound of the channel will correspond playing.

2.8 Recall

Press [Recall] key will directly switch to the previous channel that you played before current channel.

2.9 FAV

1. In TV channel list press [FAV]. In the window of "Favorite", you can move highlight by press [Channel Up/Channel Down] key and press [OK] key to select favorite group. To create a Favorite please press [EDIT] key.

2. In the "Fav-Group-window" please navigate with [CH▲▼] and press [OK] key to select favorite channels. Pressing [Page Up/Page Down] keys can implement the "Page up/Page down" function. You also can press [Volume Up/Volume Down] keys to select different "Favorite Group".

3. Press [VOL▲▼] to select different "Favorite Group".

2.10 Audio

1. In full screen, press [AUDIO] key can open the "Audio" window on the screen.

Select "Audio" with [CH▲▼], to change the "Audio Modes" press [VOL▲▼] for Stereo, Mono, Right/Left.

2.11 INFO

In full screen, press [INFO] key can open information screen, in the window shows the parameters of current channel.

Channelnumber   Service   Channelname
                       Information

2.12 EPG (Electronic Program Guide)

The STB has an Electronic Program Guide (EPG) to help you navigate channels through all the possible viewing options. The EPG supplies information such as channel listings and starting and ending times for all available channels.
Press [EPG] key to display EPG screen.

1. Press red [Timer] key to enter into following screen.

Icons to navigate in
the EPG

1. Press [OK] key in each item can see more detail information and press [Red] key to cancel.

⊕   Back to previous Manu

🔺   Back to actual time

◀ ▶   Navigate in a „30 minutes interval"

◀◀ ▶▶   Navigate in a „2 hour interval"

◀◀◀ ▶▶▶   Navigate in a „daily interval"

2.   Press [GREEN] (Timer), to open the Timer Sub Menu.

To navigate, press [CH▲▼VO▲▼] and set related date, as well start and stop time. Save your settings.

2.13 TV/Radio

In TV mode, pressing [TV/RADIO] key can switch to Radio mode. In Radio mode, press [TV/RADIO] key to switch to TV mode.

2.14 OK

1.   In full screen, press [OK] key to enter "Channel List".

2.15 LNB short circuit

In case of LNB short circuit you see "LNB" in the box display. Please check your cable connections carefully. If LNB short circuit has been resolved the message disappears.

2.16 Zoom

1. The [ZOOM] key allows you to focus and enlarge a certain area on the images.

2. Press [ZOOM] key again, the image will enlarge rotate as x1, x2, x4, x6, x8, x12, x16.
3. In "x2 ~ x16" image, using [Up/ Down/ Up/ Down] keys to move the image center area you want to see.

2.17 Menu

Press [MENU] key to open the menu, exit the current menu to previous menu or to close the window.

2.18 Format

Press [Format] key in full screen mode to select different TV-Formats: 576i -> 480i -> 576P -> 480P -> 720P_50 -> 720P_60 -> 1080i_25 -> 1080i_30.
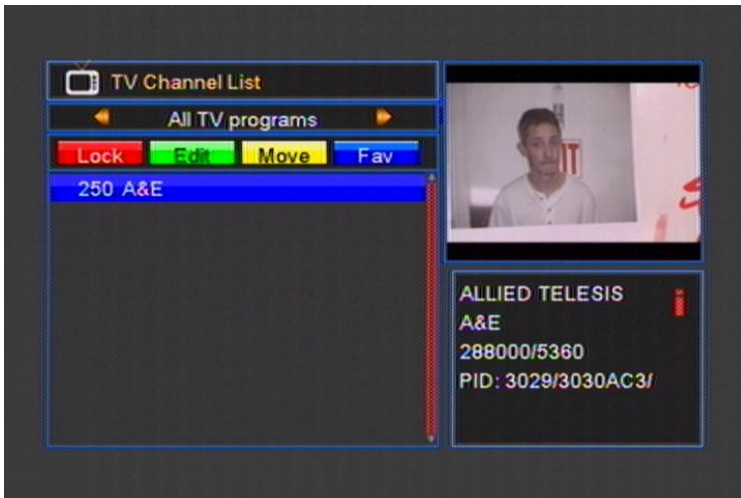

2.19 Exit

Press [EXIT] to leave the actual menu.

3. Menu

3.1   Programs:
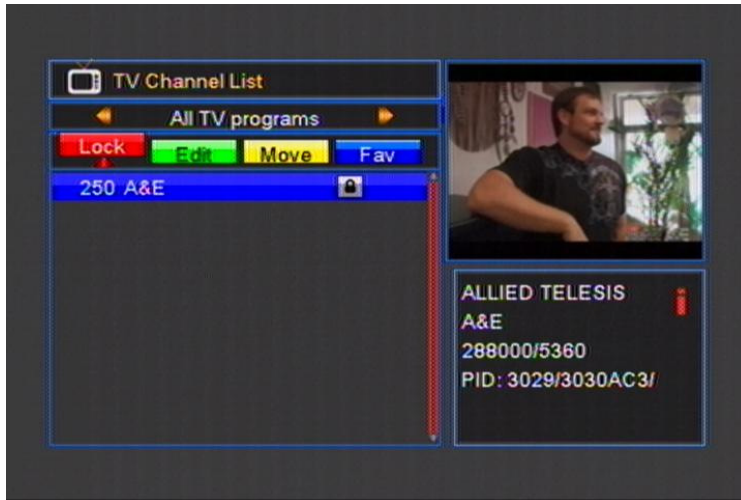

3.1.1   TV Channel List

The TV Channel List allows editing your services.

You can move the "highlighted" services by pressing [CH▲▼] key and press [OK] key to preview the current highlighted program in the right scaled video.

3.1.1.1 Lock

Press [RED] to enable the lock mode, select a service a confirm with [OK]. Enter the PIN code:"0000",
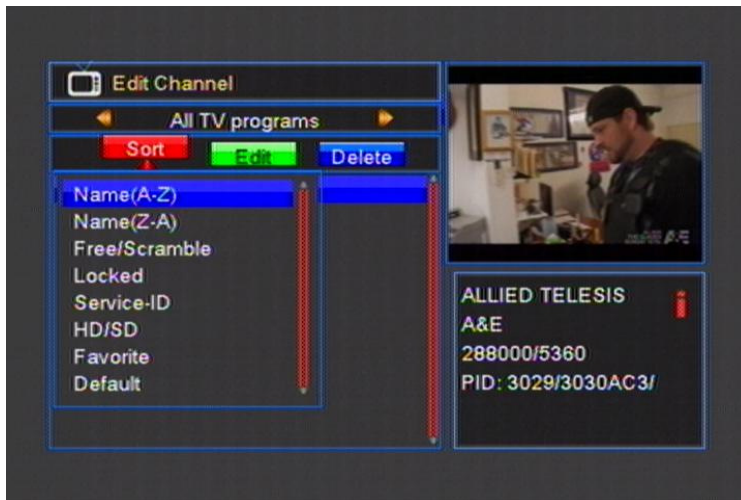and a small Icon will be visible behind the selected service.

3.1.1.2 Edit

Press [GREEN] to "Edit". You can select between "Sort", "Edit" and "Delete".

3.1.1.2.1 Sort

Press [RED] key to "Sort". There are eight types to sort. Press [CH▲▼] key to move the highlighted service and press [OK]
key to confirm.

Please select different options.

-Name (A-Z): Sorting in Alphabetical order, ignore "$" symbol.

- Name (Z-A): Sorting in Alphabetical order, ignore "$" symbol.
- Free/Scramble: Sort channel through free and scramble sequence. Free channel will in the front of channel list and scramble channel will at the rear of channel list
- Lock: All locked channels.
- Service ID
- HD/SD
- Favorite
- Default

3.1.1.2.2 Edit

In "Edit Channel" menu, press [GREEN], then press [CH▲▼] key to move the highlighted service and press [OK] key to open the "Rename" window as follows:
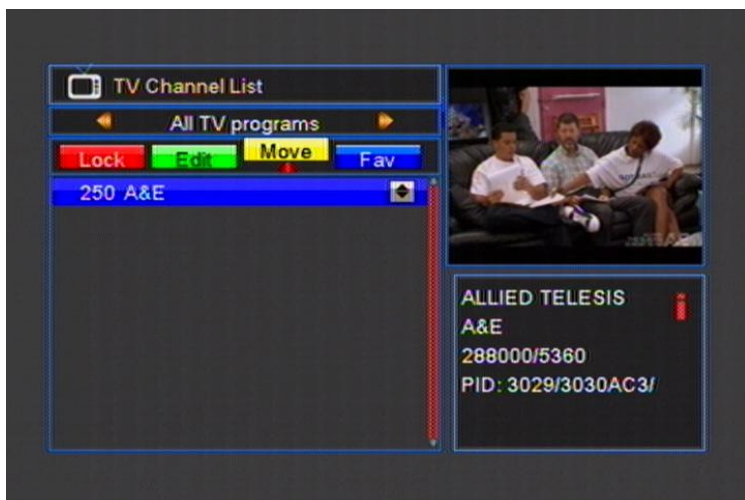

1.Press [YELLOW] key to select "CAPS".

2.Press [RED] key to delete the char on the cursor.

3.Press [BULE] key to save the modification

4.Press EXIT key to cancel the operation

3.1.1.2.3 Delete

1. Press [BLUE] key, then press [CH▲▼] key to move the highlighted service and press [OK] key to mark as deleted.
2. Exit the menu to delete the services.

3.1.1.3 Move

1. Press [YELLOW] key, then press [CH▲▼] key to move the highlighted service and press [OK] key to mark.
2. A small Icon will be visible behind the selected service.

3.1.1.4 Favorites

If you want to add services to your favorite list, press [FAV] and confirm with [OK]. A small Icon will be visible behind the selected service.

1. You can move between 8 favorite groups by pressing [CH▲▼] key and press [OK] key to mark a favorite.
2 Press [EXIT], to close the Favorites.

3.1.2   Radio Channel List

Operation is identical to the TV Channel List.

3.2   DVR Management

If you select DVR Management please find the following menu:

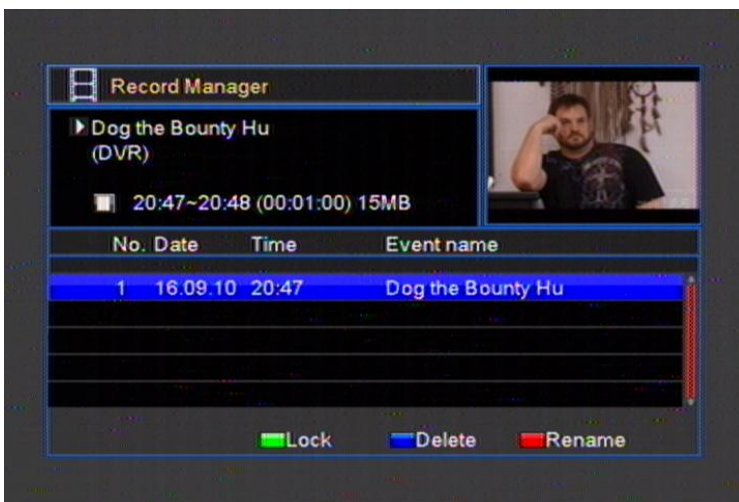**DVR/PVR (Digital/Personal Video Recorder)**

Your PVR-Ready Receiver (PVR = Personal Video Recorder) is prepared with a USB 2.0 slot to fit external Hard Drive Disk. This would allow that you do not need any longer an analog Video Recorder. The maximal recording time depends on the capacity of the USB device and bandwidth of the selected service.

Note !
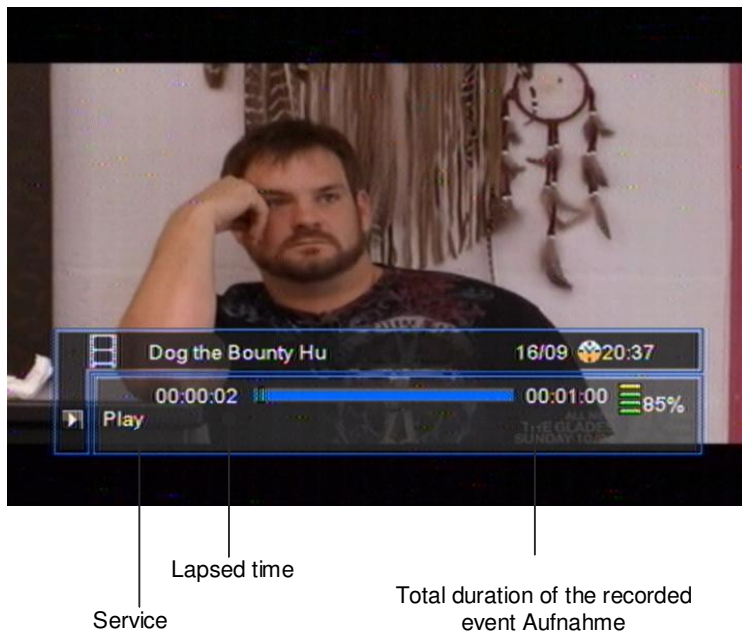You can only record and watch the one service at the same time.

3.2.1 Record Manager

The Record Manager shows all recorded Video Services, the menu looks as follows:
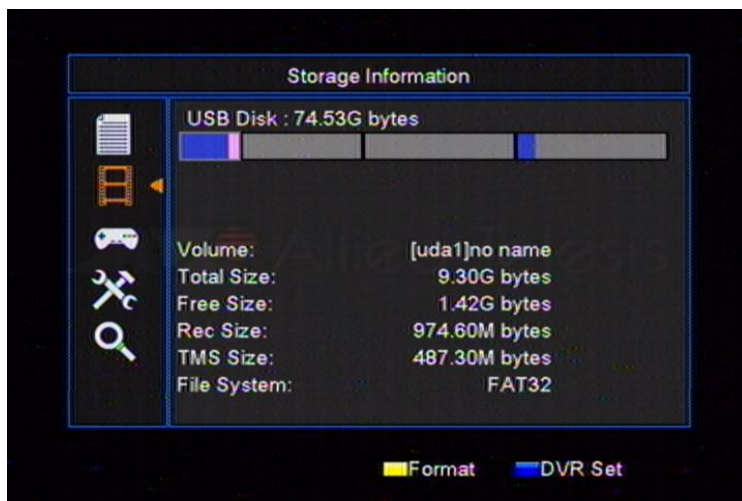

1. You can lock the recorded services individually with the [GREEN] key following by the PIN code.
2. You also can delete recorded services with [BLUE]. The services will be marked with
3. You also can rename the recorded services with [RED]

To playback a recorded service, press [OK]. The playback screen looks as follows:

Lapsed time

Total duration of the recorded
event Aufnahme

Service

3.2.2 HDD Format

In case you want to format your USB device please enter into HDD Format:

Note !

In case you format your USB Devices, please be aware that all Multimedia-Files (also MP3s) will be deleted.

3.2.3 DVR Configuration

Entering the DVR Configuration you have the following options:

1.   With time shift you can playback and record one service at the same time.

2.   If you set "Timeshift recording" with [VOL▲▼] to "ON", any service will be recorded during watching.

3.2.4   Media Player
The USB menu appears automaticly when a USB device is inserted except during the autoscan option, multi image and USB upodating is running,
You can also enter DVR Management -> Tools-> USB.

The USB menu is not available when any USB device is connected. The reproduction list is not going to be saving if you

unplug the device or the decoder is on stand-by mode or switch off. The USB menu is shown at this image.

3.2.4.1 Show Play List

Enter [1] you can find play list .

3.2.4.1.1 Play

Press [RED] button, the image searching start, press (OK) button the image is be display on the screen.

With the (EXIT) button you exit and go to the menu before.

3.2.4.1.2 Delete

Press Yellow button, Delete the selected image file.

3.2.4.1.3 Delete all

Press Blue button, you will delete all files.

before this action a banner inform "are you sure" before finish the operation, if the "Yes" option is chosen all the image file are delete it and the window close

3.2.4.2   Repeat mode

All image file of the folder are going to add the list pressing the (2) button, the banner message will disappear in a few seconds.

 Only the selected picture will be displayed.

 All pictures in the activated folder will be displayed.

 All pictures in the activated folder will be displayed endless.

3.2.4.3   Set up
Slide Show Time
Slide show repeat

3.2.4.4   Sort

When you press [4] you can sort according to Default, Name (A-Z), Name (Z-A)
Enter into the Media Player menu with [VOL▲▼]:

Preview

Name of file

Resolution

Size of file

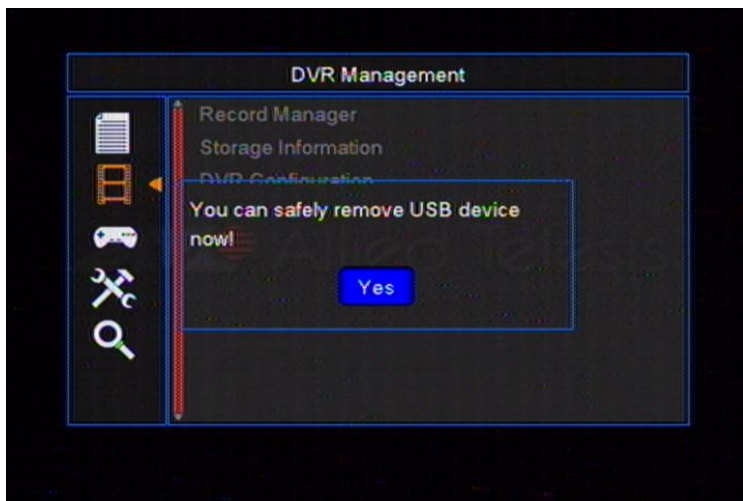Repeatmode with button [2]

3.2.4.5   All images

When you press [5], you can find all images in USB

3.2.4.6   Add to list

When you press [6], you can add USB images to show play list.

3.2.5   Remove USB Device safely

In case you want to remove the USB device please always do this as follows:

Press [VOL▲▼] to disable/remove USB Medium safely. This avoids any potential data loss in case of unauthorized remove of the USB device.
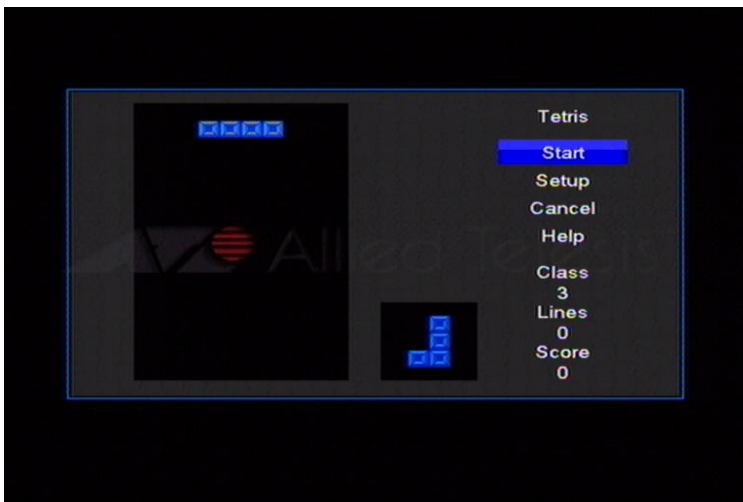
3.3   Games

Your receiver supports three games.

3.3.1   Tetris

Select the game with [VOL▲▼] to enter into the following dialog:

To set level of difficulty please press [VOL▲▼]. Press "Help" and [OK] for further information of [EXIT] to leave.
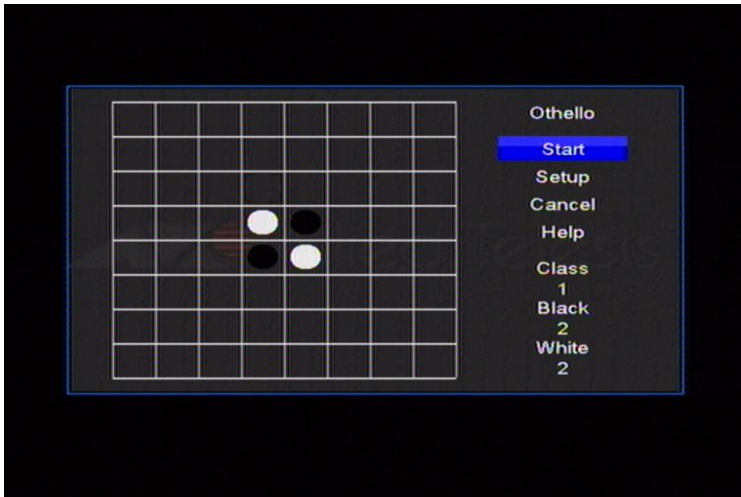
3.3.2   Othello

Select the game with [VO▲▼] to enter into the following dialog:

To set level of difficulty please press [VOL▲▼]. Press "Help" and [OK] for further information of [EXIT] to leave.

3.3.3   Soduku

Select the game with [VOL▲▼] to enter into the following dialog:

To set level of difficulty please press [VOL▲▼]. Press "Help" and [OK] for further information of [EXIT] to leave.
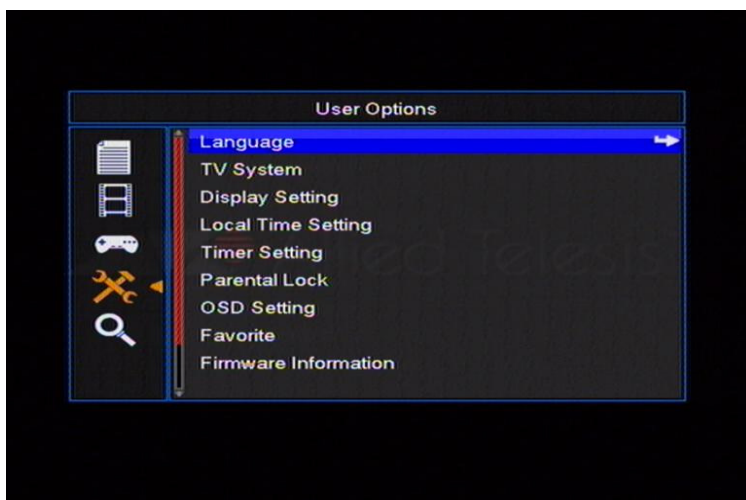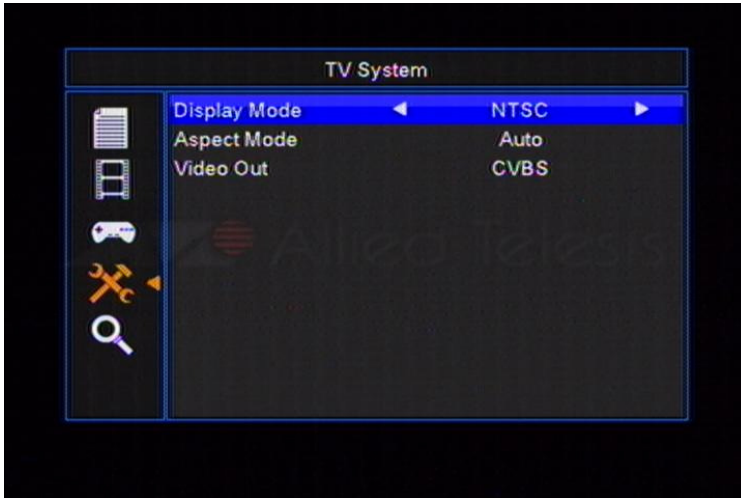
3.4 User Options

3.4.1 Language

Please select the language menu as follows:

1. Language: press [VOL▲▼] key to select menu languages, the selections of languages include: English, French, German, Italian, Spanish, Portuguese, Russian, Turkish, Polish, Arabic and Norwegian.
2. First Audio: press [VOL▲▼] key to select First Audio languages, the selections of languages include: English, French, German, Italian, Spanish, Portuguese, Russian, Turkish, Polish, Arabic and Norwegian.
3. Second Audio: press [VOL▲▼] key to select Second Audio languages, the selections of languages include: English, French, German, Italian, Spanish, Portuguese, Russian, Turkish, Polish, Arabic and Norwegian.
4. Teletext: You can set the teletext language if the operator provides such service otherwise a pop up message show: "No Teletext".
5. [Exit] to leave the menu.

3.4.2   TV System

In the Sub menu TV System you have the following screen:

1. You have the option between various modes dependent on your TV Set: By Native TV -> NTSC -> PAL-N -> PAL-M.
    Press [VOL▲▼], to select the required TV Mode.

2. Aspect mode allows to switch between 4:3 PS / 4:3 LB / 16:9. Press [VOL▲▼], to select the required mode.

3. Video: CVBS.

3.4.3   Display setting

There are three items in display setting:

Brightness, contrast, saturation

3.4.4   Local Time Setting

1.   **GMT-Usage**: Refers to the time provided by satellite stream. Press [VOL▲▼] to change the settings.

2.   **GMT-Offset**: This option is available if you set GMT-Offset to „ON". Press [VOL▲▼], to set "GMT Offset". Every selection increase/decrease the GMT Offset for 30 minutes.

3.   **Summertime**: You can set the summertime.

4.   **Date and Time**: These options are only available if you set GMT-Offset to „OFF" . Press [VOL▲▼], to navigate and use the number buttons to set the date and time.

NOTE: In case the selected service do not provide date and time information, please set these data manually. But the most of the satellite services do provide date and time information.

5.   Press [Exit], to leave the menu.

3.4.5　　Timer Setting

The Timer menu looks as follows:

1.　　**Timer Setting**: Select „Timer" and "Timer" and choose up to 8 Timer. Press [VOL▲▼] to enter into the following menu:

2.　　Select the required Timer mode with [VOL▲▼]. Select between "OFF", "once" or "daily".

3.　　Timer service: Change Record

4.　　Wakeup Channel: press [OK] key to enter channel list and select the related channel you want to set.

5.　　Wakeup Date: use the number keys to input your wakeup date.

6.　　On Time: use number keys to set the wakeup time.

7.　　Duration: Please set the duration (start – and end time) of the selected service.

3.4.6 Parental Lock

"Parental Lock" allows to protect the main menu and the channels (which are previously marked as "lock" in the Edit menu) with a PIN code. The default password is "0000":

1. "Menul Lock" please press [VOL▲▼] to set „ON" to force a password entry for every menu you like to enter. If you set „OFF" no password is required.

2. Channel Lock" please press [VOL▲▼] to set „ON" to protect the channels which are previously marked as "lock" in the Edit menu with a PIN code. The default password is "0000".

3. New Password: You can change the default password from „0000" to any individual. Please note, that once you lost your password the Receiver becomes a service issue.

4. Confirm Password

5. Press [EXIT] to leave the menu.

3.4.7   OSD Setting

1. OSD Timeout: When you switch channels in full screen, there will show up some information about current channel on the lower of the screen. And regarding to the duration of these information show up on the screen, you can press [VOL▲▼] key to set the time. The range of the duration is "1 second ~ 10 seconds".

2. OSD Transparency: You can press [VOL▲▼] key to select the values. There are 5 levels of transparency, 10%, 20%, 30%, and 40% and "NO" (means no transparency function).

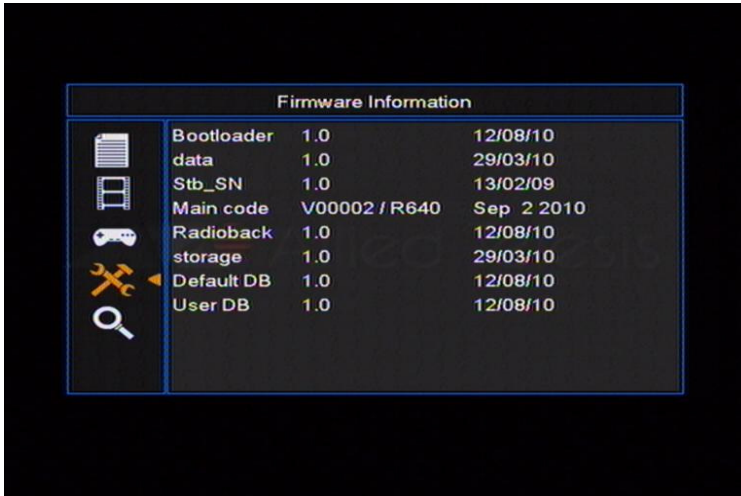3. OSD Banner position: You can adjust Banner position within 14 levels.

3.4.8   Favorite

You can rename Favorite items by your willing.
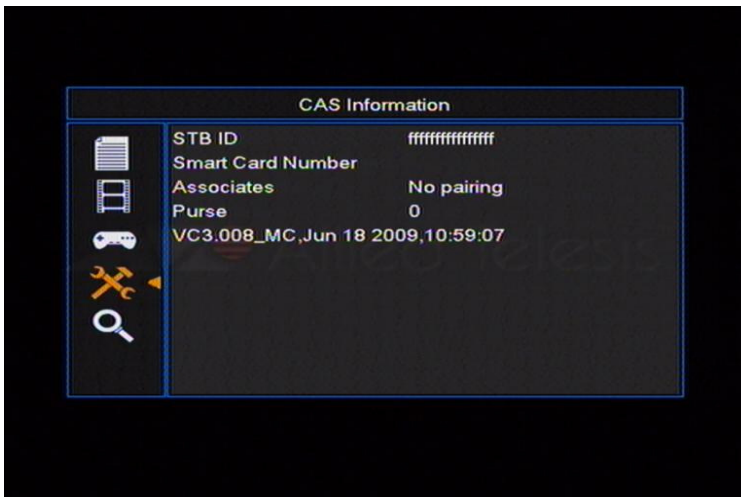
3.4.9   Firmware Information

If you select "Firmware Information" you will have the following screen:

This is for service issues only.

3.4.10   CAS information

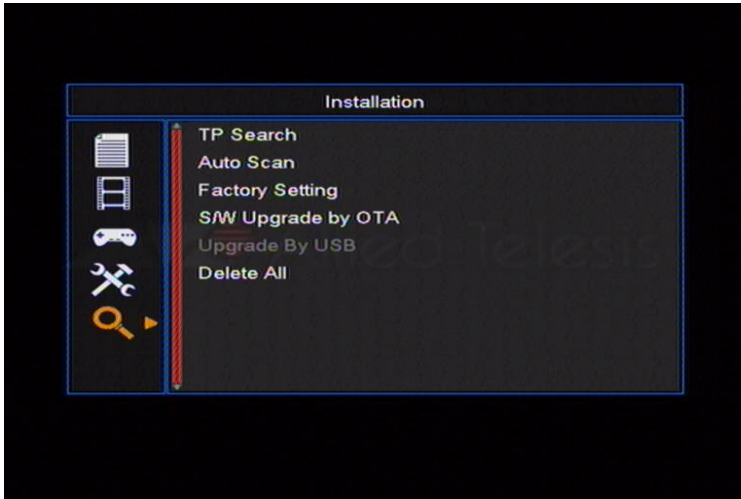If you select "CASInformation" you will have the following screen:

This is for service only.

3.4.11   Restore default values:

Default above user options.

3.5 Installation

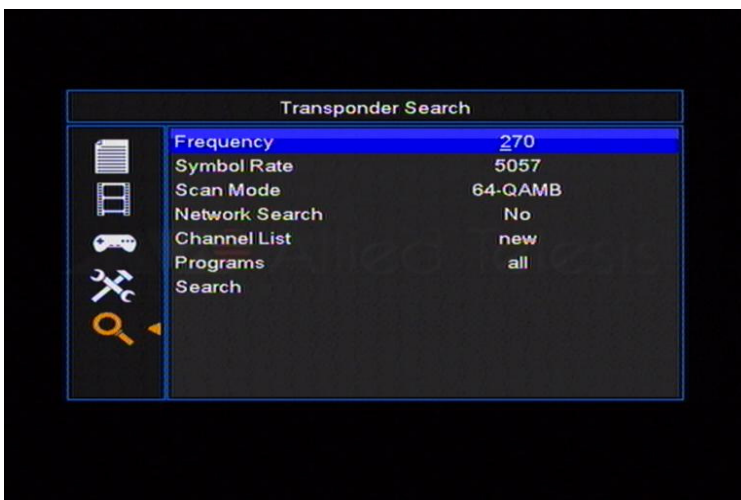Press [MENU] key to enter into the main menu,
And Password is "2147".

1. Press [CH▲▼VOL▲▼], to select between different functions.
2. Press [OK], to enter.

3.5.1   TP search

To search single programs, choose in the menu Installation the point „ TP-search ". Open with the key "OK," on your remote control the menu "TP search".
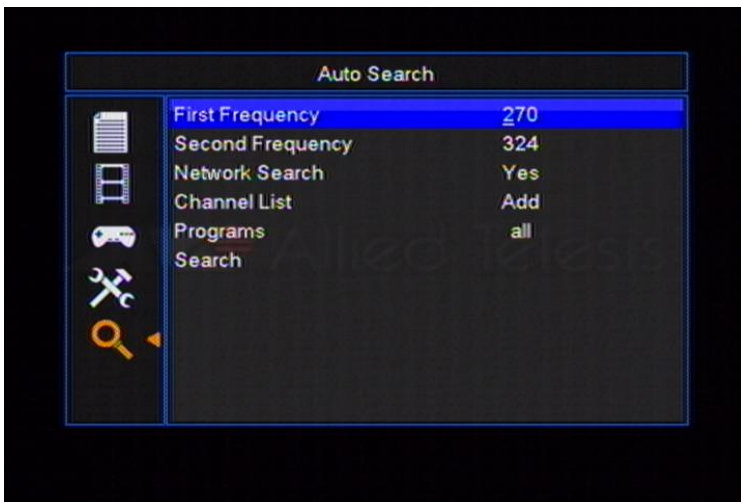
If you dispose of a frequency list of your cables net operator, you can give in this menu the single data of the programs and add.

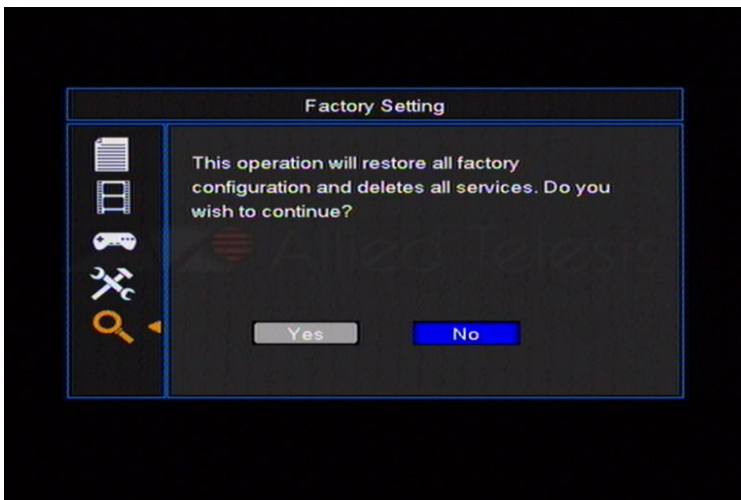Select moreover the single points and give then the data known to you.

3.5.2 Autom Search

Go with the cursor on the point "Search". Begin now the searching run with the key "OK". Confirm after end of the search again with "OK". Now the programs are stored.

3.5.3 Work settings

The password becomes on the work settings put back. Any changes, which you have carried out, get lost. The Receiver starts anew in the normal mode with all Work settings.

3.5.4   S/W Upgrade by OTA

Updating the software has to do nothing with the securing of new TV programs. It serves only the purpose to update the company software.
Under normal circumstances a software update is for the normal service Receivers not inevitably.

We recommend to load the work settings before and after the update. Please, follow They that this leads to the loss of your self-provided program list.

3.5.5   Updated by USB

Another option to update the operating software on the receiver is to "Updated by USB".
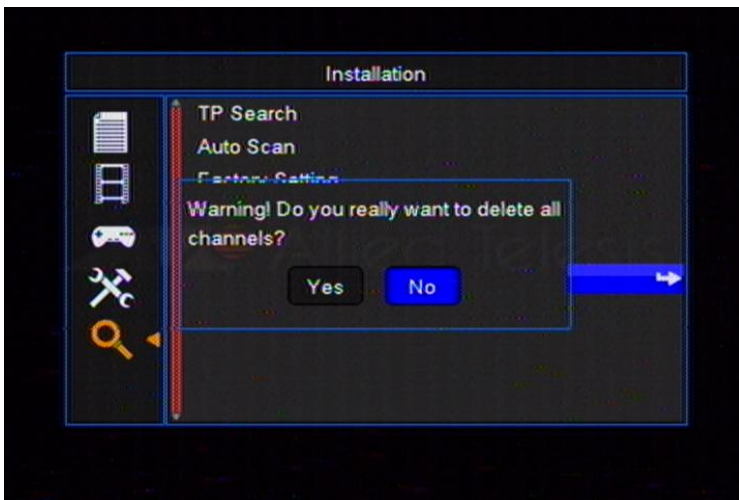

If you want to update the receiver by using a **USB 2.0 compatible** Stick or such USB Hard Drive Disk,
please press [VOL▲▼]. Select the Upgrade-file and start by press the [VOL▲▼] key.

Note: Do not remove the USB stick or power off during operation, otherwise you may cause a service issue!

3.5.6 Delete all

Delete all channels.

Technical Specification:

Receiver

IF bandwidth	950 MHz ~ 2150 MHz
LNB power supply	13/18V, 550mA
LNB controller	22 KHz ± 2 KHz
DiSEqC controller	Version 1.0
Symbol rate	2 ~ 45 MS/s
Forward Error Correction (FEC)	1/4,1/3,2/5,1/2,3/5,2/3,3/4,4/5,5/6,8/9,9/10
Aspect ratio	4:3 letterbox, 4:3 PanScan, 16:9
Video resolution	720 x 576 (Pal-N) (50Hz), 720 x 480 (PAL-M, NTSC) (60Hz), 1280 x 720 (60Hz), 1920 x 1080 (60Hz)
Audio mode	Left, right, stereo, AAC digital sound

Connection options

LNB IF input	Type F, IEC 169-24
RCA (Video CINCH)	CVBS
COAXIAL	Digital audio output
HDMI port	Connection for digital transmission of audio and video signals
YPbPr	Component output
USB	USB port

Power supply

Mains input voltage	100-240 V ~, 50/60 Hz