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## SAFETY PRECAUTION

### Important Safety Instructions

- 1, Read these instructions
- 2, Keep these instructions
- 3, Heed all warnings
- 4, Follow all instructions
- 5, Do not use this apparatus near water
- 6, Clean only with dry cloth
- 7, Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8, Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus(including amplifiers) that produce heat.
- 9, Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10, Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11, Only use attachments/accessories specified by the manufacturer.
- 12, Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use cautions when moving the cart/apparatus combination to avoid injury from tip-over.



- 13, unplug this apparatus during lighting storms or when unused for long periods of time.
- 14, Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged. Liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15, WARNING:to reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
- 16, The mains plug is used as the disconnect device, the disconnect device shall remain readily operable.

<b>CAUTION:</b>		
	<b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN	
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.	<b>Warning:</b> 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).

**Caution:** The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:  
 Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:  
 —Reorient or relocate the receiving antenna.  
 —Increase the separation between the equipment and receiver.  
 —Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.  
 —Consult the dealer or an experienced radio/TV technician for help

This device is verified to comply with part 15 of the FCC Rules for use with cable television service.

This device is intended to be attached to a receiver that is not used to receive over-the-air broadcast signals. Connection of this device in any other fashion may cause harmful interference to radio communications and is in violation of the FCC Rules, Part 15.

**WARNING:** The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

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

## Contents

**WARNING:** The unit should be connected to a power supply only of the type descried 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 230V) to your home, consult your local dealer or local power company.

**WARNING:** 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.

**WARNING:** The mains plug is used as the disconnect device, the disconnect device shall remain readily operable.

**WARNING:** The battery of remote control should not be exposed excessive heat such as sunshine, fire or the like.

**WARNING:** Maintenance man must use the appointed screw in the rear plate.

**Note:** Do not open the cabinet to avoid the unit direct exposure to radiation.

**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.

**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 inside the unit 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.

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## 1. Receiver Description & Remote Control

### 1.1 Receiver Description

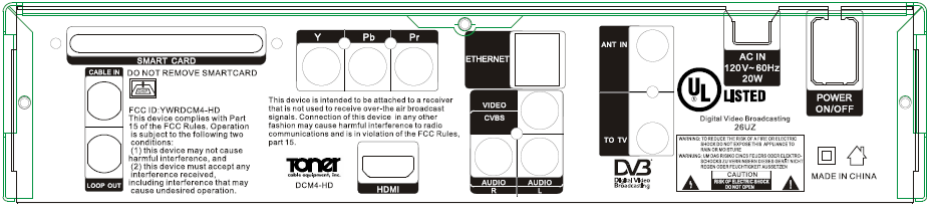
This receiver allows you to receive unencrypted (free-to-air) and encrypted (depending on smart card) digital terrestrial programs over a antenna for personal, non-commercial use.

### 1.2 Front Panel Description



1	POWER	Is used to switch between the working mode and the standby mode.
2	Remote Sensor	Detects the infrared signals from the remote control unit.
3	Display (4-Digit / 7-Segment)	Displays the received channel number while operating and time while in standby mode.
4	LED SIGNAL	Yellow light when receiving a channel signal.
5	VOL+/-	To change volume to move cursor, change numbers in the menu or to change the choice
6	MENU	To enter into the main menu and exit all menus.
7	CH+/-	To change channels or for navigating and changing values in menus.
8	OK	To select an item in the menu and confirm it or pop up channel list when no menu.
9	USB	To connect with USB disk

1.3 Rear Panel Description



1	CABLE IN	CABLE input of the tuner.
2	LOOP OUT	CABLE output for cascading to others devices.
3	HDMI	Digital Out for the transmission of Audio- and Video Data
4	VIDEO	CVBS video output for TV AV in.
5	AUDIO	AUDIO output for stereo set.
6	CA	De-scramble pay TV services in combination with the related smart card
7	TO TV	Modulator output for the connection to a TV set
8	ANT IN	Antenna input for the terrestrial antenna
9	Y Pb Pr	Component Out
10	AC IN	Mains input cable.
11	POWER ON/OFF	Allows to completely switch off the receiver.

### 1.4 Remote Control Description





## **2. Basic Operations**

### **2.1 Switch 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..

### **? Frequently Asked Question**

**Q: The power of my STB is on and it is running in TV mode but the TV screen shows nothing:**

**A: Make sure the TV set has been set to the correct video input(not the TV channels). For example, if you have connected the unit to the video1 input of the TV set then you need to select the corresponding input of the TV. Mostly it is done with the AV button of the TVs remote control unit.**

**Q: My STB is running in TV mode but the TV screen shows nothing except one ball and “No Signal”.**

**A: That means the channel you selected has no signal. This can be caused by several reasons:**

1. The channel you selected is not from the satellite to which your dish is pointing. Select another channel.
2. The signal of current TV channel is too weak. You can try to change to other channels with a stronger signal. If the problems still exist, please consult your local dealer or installer for technical service.
3. You selected the wrong LNB type in the installation menu or your DiSEqC switch configuration is not correct.

### **2.2 Standby Mode**

1. Press [Power] button to switch from TV/radio mode to standby mode
2. In standby mode press [Power] button again to switch back to TV/radio mode. The last active channel will be showed.
3. To switch off the STB complete press the main power button.

## 2.3 Mute

1. Press the [Mute] button to mute the sound. On the screen an icon will be displayed to indicate the muted sound.
2. Press the [Mute] button again to restore the sound.

## 2.4 Audio

1. In TV mode, press the [Audio] button to open the Audio Mode window.
2. Select the item you want to adjust with [CH▲/▼] and change the value with [VOL◀/▶].



## 2.5 TV/Radio

In TV mode, press [TV/Radio] to switch to Radio mode. In Radio mode press [TV/Radio] again to switch back to TV mode.

## 2.6 RECALL

Pressing the [Recall] button allows you to toggle between the actual and the last selected channel.

## 2.7 Channel Number

In TV mode you can enter the channel number directly with your remote control unit and confirm the number with the OK button to change to the desired channel.

## 2.8 FAV +/-

1. In full screen, press [FAV +/-] keys can switch the favorite channels in current satellite channels list directly.
2. The sequence of the switch favorite channels is following the sequence that in the current satellite channel list, not follow the sequence in the favorite group.

## 2.9 EPG

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.

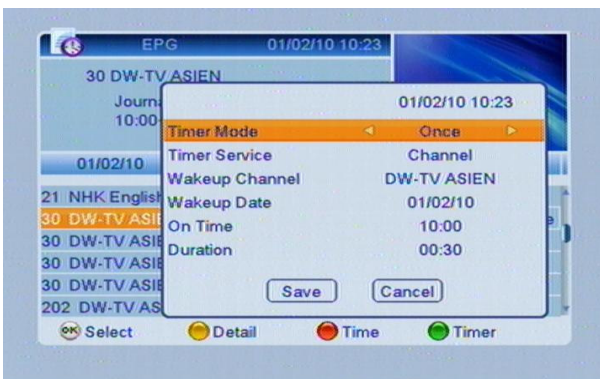


Icons to navigate  
in the EPG

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

-  Back to actual time
-  Navigate in a „30 minutes interval“
-  Navigate in a „2 hour interval“
-  Navigate in a „daily interval“

3. 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.

## **2.10 FAV**

1. In TV mode press the [FAV] button to display the Favorite Group window on the screen as the picture beside shows.
2. In the Favorite Group window you can select the desired favorite channel with [CH▲/▼] and confirm it with [OK] to switch to it.
3. With [VOL◀/▶]. You can select different Favorite Groups.
4. Press [Exit] to close the Favorite Group window.

## **2.11 CH ▲/▼**

In TV/Radio mode press [CH▲/▼] to change channel.

## **2.12 VOL ▲/▼**

In TV/Radio mode, press [Vol◀/▶] to adjust volume.

## **2.13 OK**

In TV mode press [OK] button to open the Channel List window.

## **2.14 MENU**

Press [Menu] button to enter or exit the current menu.

## **2.15 EXIT**

Press [Exit] button to exit the current menu.

## **2.16 PAUSE**

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

## 2.17 ZOOM

1. The [Zoom] key allows you to magnify a certain area on the images and the current screen will show
2. Press [Zoom] key again, the image will enlarge rotate as x1, x2, x4, x6, x8, x12, x16.
3. In “x2 ~ x16” image, using [CH▲/▼ / VOL◀/▶] keys to move the image center area you want to see.
4. In zoom mode, press [Exit] to close “Zoom” window.



## 2.18 INFO

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



Channel  
number

Service  
Information

Channel name

## 2.19 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.

### 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 and confirm with [OK]. Enter the PIN code: "0000", and a small icon will be visible behind the selected service.

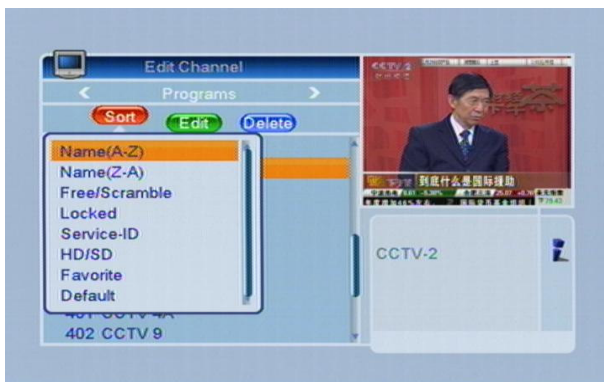


### 3.1.1.2 Edit

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.

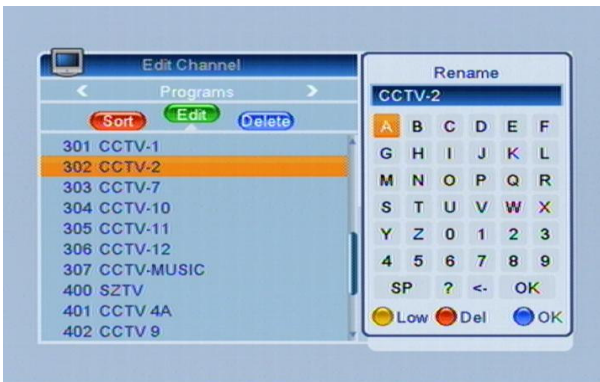


Please select different options.

- 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 [BLUE] 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.



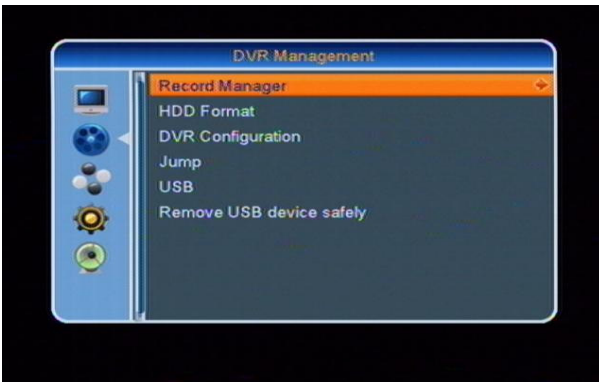
1. You can move between 8 favorite groups by pressing [CH▲▼] key and press [OK] key to mark a favorite.
2. Press [EXIT], to close the Favorites.

### 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)

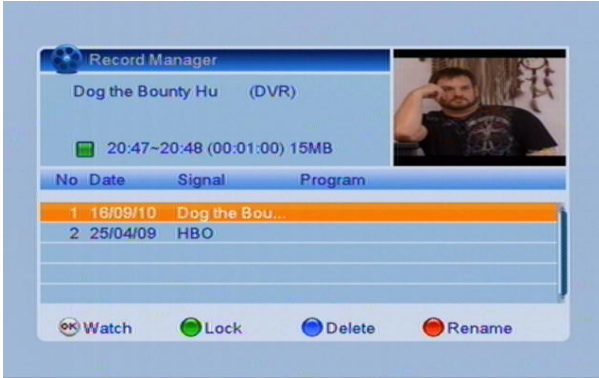
Your PVR-Ready Receiver (PVR = Personal Video Recorder) is prepared with a USB 2.0 slot to fit external Hard Drive Disk. This would allow that you do not need any longer an analog Video Recorder. The maximal recording time depends on the capacity of the USB device and bandwidth of the selected service.

#### 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:



Service      Lapsed time      Total duration of the recorded event Aufnahme

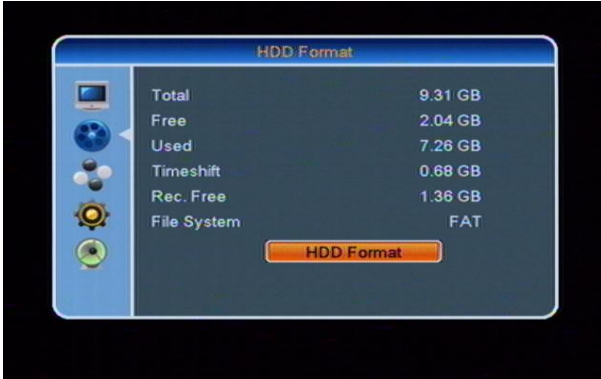
Trick Modes: You can search the recording with the buttons [Rewind / Rewind slow /Fast Forward Slow / FFW]



Trick Mode indication (select required FFW/RW buttons)

### 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 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.

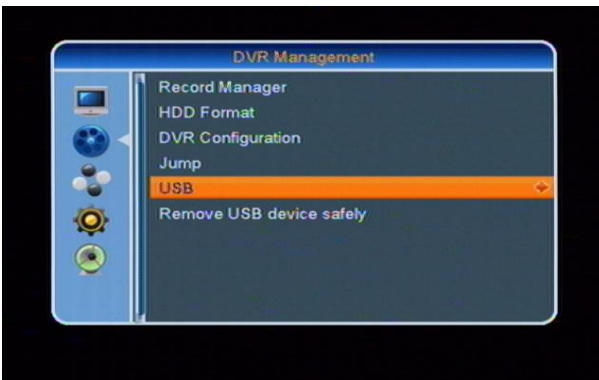
### 3.2.4 Jump

To change the time shift duration here.



### 3.2.5 USB

The USB menu appears automatically when a USB device is inserted except during the autoscan option, multi image and USB updating 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.



### 3.2.5.1 Show Play List

Enter [1] you can find play list.

#### 3.2.5.1.1 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.

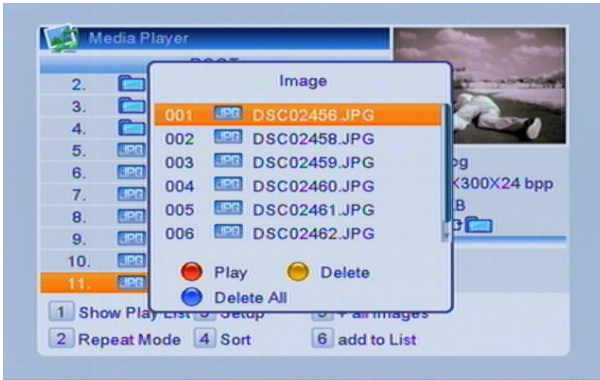
#### 3.2.5.1.2 Delete

Press Yellow button, Delete the selected image file.

#### 3.2.5.1.3 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



### 3.2.5.2 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.

### 3.2.5.3 Set up

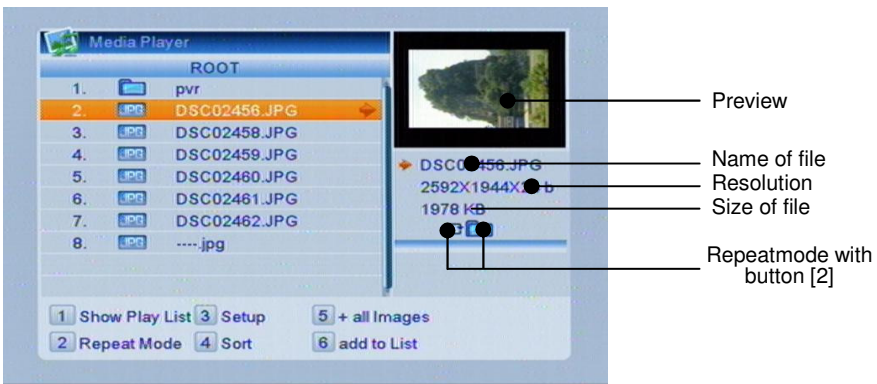
Slide Show Time

Slide show repeat

## 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▲▼]:



### 3.2.5.5 All images

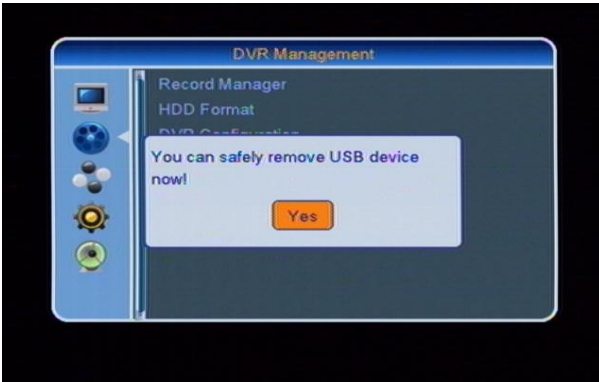
When you press [5], you can find all images in USB

### 3.2.5.6 Add to list

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

### 3.2.6 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.

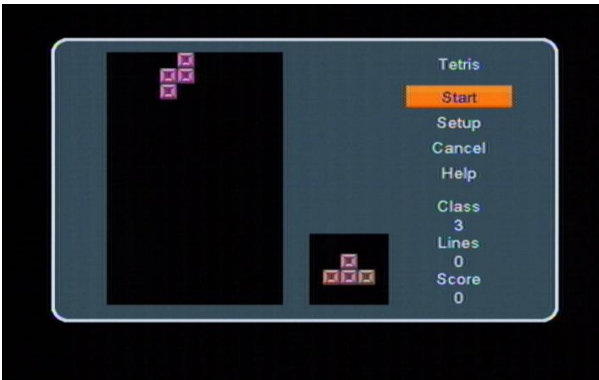
### 3.3 Games

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

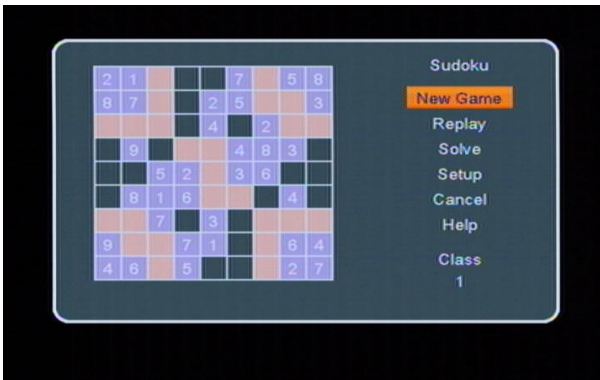
Select the game with [VO▲▼] to enter into the following dialog:



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

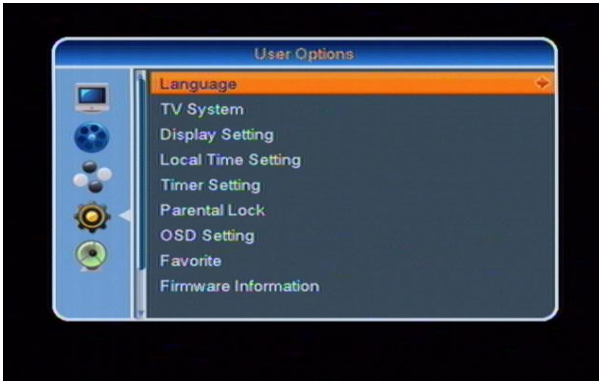
### 3.3.3 Sudoku

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

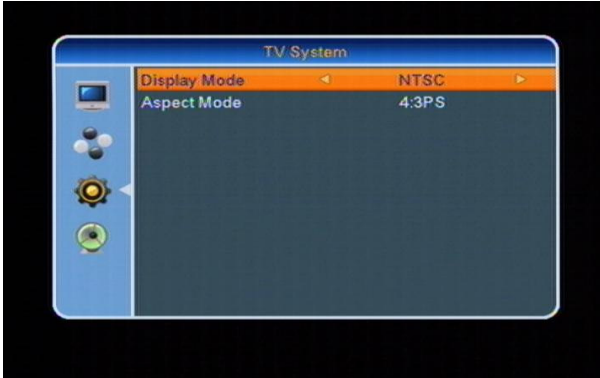
Please select the language menu as follows:



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

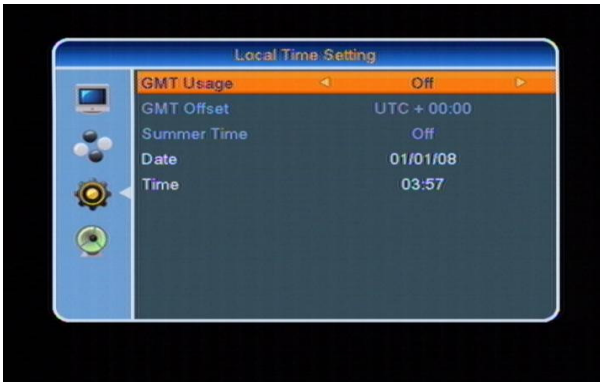
### 3.4.3 Display setting

There are three items in display setting:  
Brightness, contrast, saturation



### 3.4.4 Local Time Setting



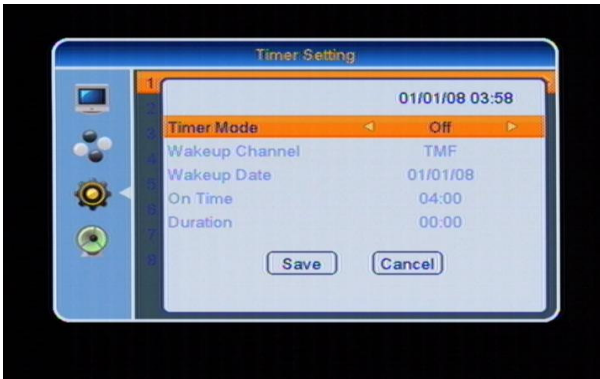


1. GMT-Usage: Refers to the time provided by terrestrial stream. Press [VOL▲▼] to change the settings.
2. GMT-Offset: This option is available if you set GMT-Offset to „ON“. Press [VOL▲▼], to set “GMT Offset”. Every selection increase/decrease the GMT Offset for 30 minutes.
3. Summertime: You can set 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



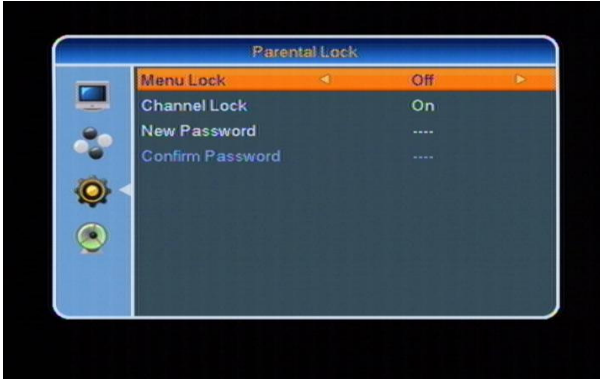
The Timer menu looks as follows:



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. “Menu 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.

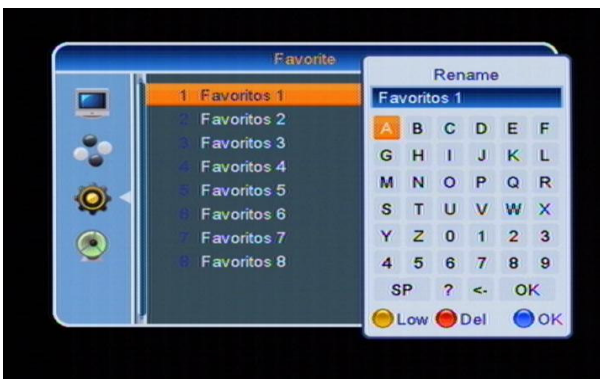
### 3.4.7 OSD Setting



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.

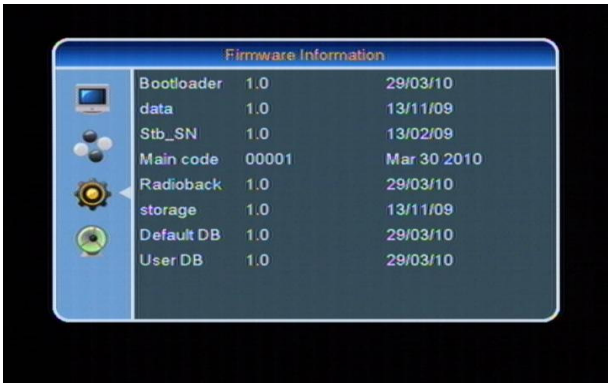
### 3.4.8 Favorite

You can rename Favorite items by your willing.



### 3.4.9 Firmware Information

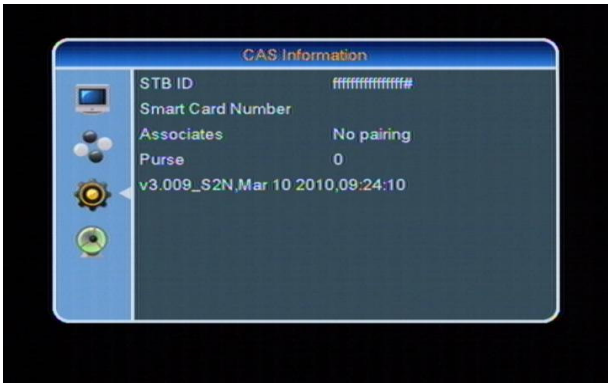
If you select “Firmware Information” you will have the following screen:



This is for service issues only.

### 3.4.10 CAS information

If you select “CAS Information” you will have the following screen:



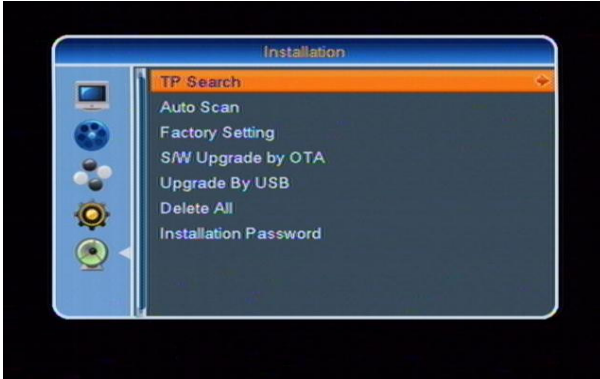
This is for service only.

### 3.4.11 Restore default values:

Default above user options.

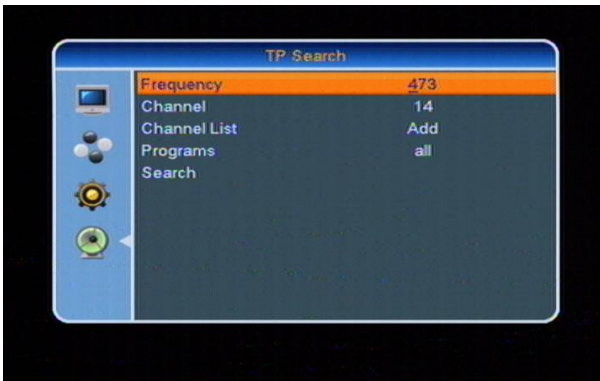
### 3.5 Installation

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.

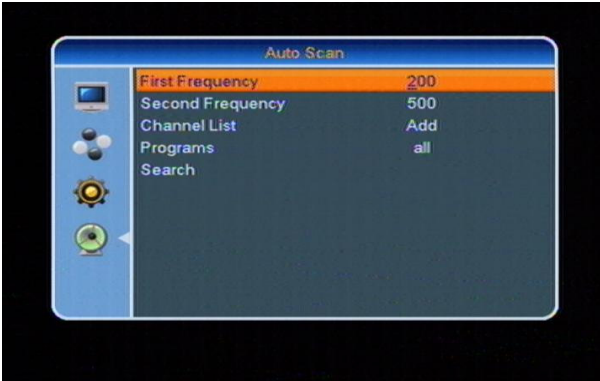
#### 3.4.1 TP Search



1. " Frequency": to set up Frequency by select number key-press.
2. " Channel": will match with Frequency which select by customer.
3. " Channel list": Press [VOL▲▼] to choose Add or New channel list.

- 4. "Programs": to select with [VOL▲▼], between free to air, scrambled, or all services
- 5. Navigate to "Search" with [CH▲▼] and press [OK], then start to search programs.

### 3.4.2 Auto Scan

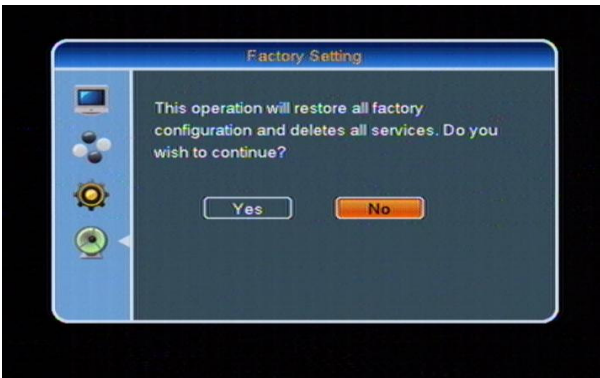


Operation is similar with TP search.

If customer do not have special request, STB will search default programs auto.

### 3.4.3 Factory Setting

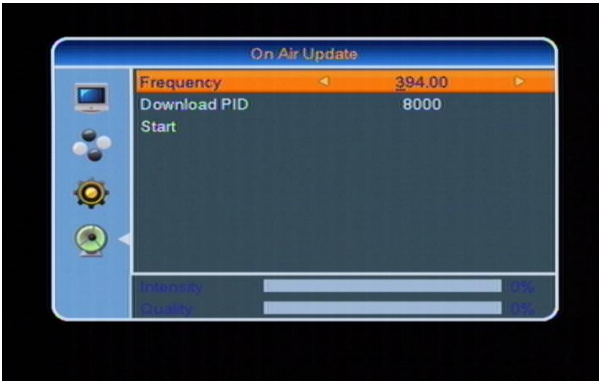
If you enter into Factory Settings:



1. If you select „YES“ the Receiver will be set to standard settings as originally delivered.
2. Press [EXIT] to leave the menu or select “NO“.

### 3.4.4 Software upgrade by OTA

The receiver is fitted with Software update by OTA. The screen looks as follows:

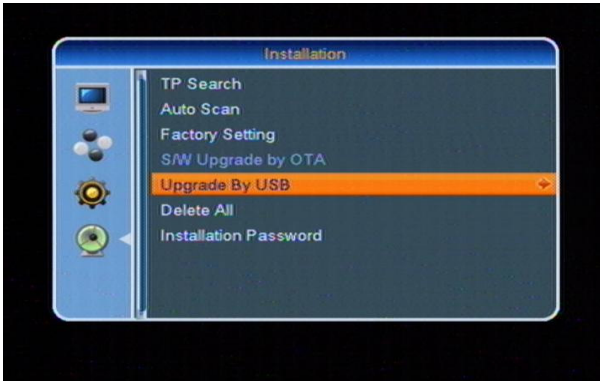


You must point specify satellite system to carry out the software update. This operation is only to update the operating software on the receiver.

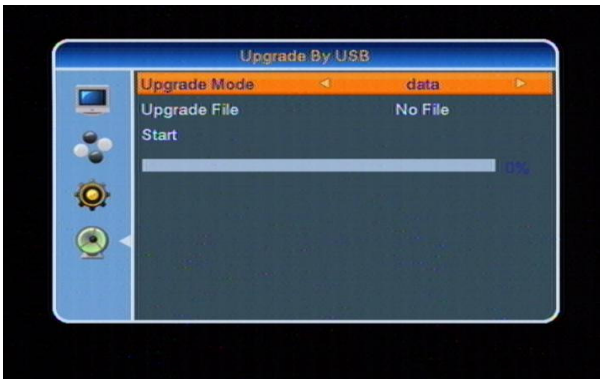
### 3.4.5 Updated by USB

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





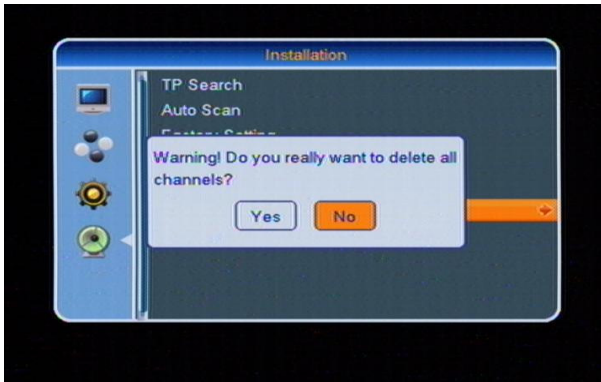
If you want to update the receiver by using a USB 2.0 compatible Stick or such USB Hard Drive Disk, please press [VOL▲▼]. Select the Upgrade-file and start by press the [VOL▲▼] key.



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

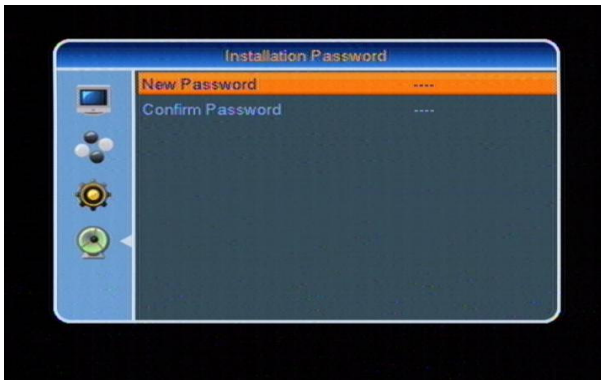
### 3.4.6 Delete all

Delete all channels.



### 3.4.7 Installation Password

You can change Password of Installation



## 4. Technical Specification

### VIDEO

Decoding	MPEG4, H.264, MPEG-2 & MPEG-1 compatible
Bit rate	Max 20Mbps
Output	PAL/NTSC / Auto
Aspect ratio	4:3PS, 4:3LB, 16:9, Auto
Active pixel	720x480 @ 30fps; 720x576 @25fps
Output connector	RCA

### AUDIO

Decoding	MPEG-2/MPEG-1 layer I & II
Sampling rate	32 / 44, 1 / 48

### DEMODULATOR

Demodulation	COFDM 2k, 8k
Guard	1/4, 1/8, 1/16, 1/32
Input data rate	5-31

### INPUT SIGNAL

Frequency	VHF-UHF
Input level	-78dBm -20dBm

### MISCELLANEOUS

Supply voltage	120V~, 60Hz
Power consumption	20 watts max
Operation temperature	+5° to +40°
Storage temperature	-20° to +70°
Dimension (W * D * H)	280*210*65MM
Weight	1.9 Kg