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## Notices

### Warranty

The warranty does not cover parts which may become defective due to misuse of the information contained in this manual. Read this manual carefully and make sure you understand the instructions provided.

### Symbols



Do not remove any cover (or back) in order to reduce the risk of electric shock. No user serviceable parts inside. Refer servicing to qualified service personnel.



This symbol indicates dangerous voltage inside the product that presents a risk of electric shock or personal injury.



This symbol indicates important instructions accompanying the product.

### Warnings

- Pay special attention to the following marks that indicate hazardous situations throughout the whole manual.
- 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.
- To avoid explosion danger, do not dispose of batteries in an open fire.
- The mains plug is used as the disconnect device. The disconnect device shall remain readily operable.
- Each USB port can provide max. 5V 500mA. The performance of any appliances which consume more than 5V 500mA cannot be guaranteed even if external power applied.

NOTE: For Home and Personal Use:

This product is intended to be used for recording and playback for your home and personal enjoyment. Copying and commercial use of copyrighted material without permission of the copyright owner may be prohibited by law. Use of this product, in compliance with all copyright and applicable intellectual property laws, remains the responsibility of the user of the product.

### WEEE Consumer Notice



This product should not be disposed with other household wastes at the end of its working life. This product is subject to Directive 2002/96/EC of the European Parliament and the Council of the European Union on waste electrical and electronic equipment (WEEE) and, in jurisdictions adopting that Directive, is marked as being put on the market after August 13, 2005, and should not be disposed of as unsorted municipal waste. Please contact either the retailer where you purchased this product or their local government office for details of where and how they can take this item for environmentally safe recycling.

**Safety Precautions**

This digital set top box has been manufactured in accordance with international safety standards. You should read the notes on safety precautions carefully before operating the set top box, for your own safety. Please be sure to follow these safety precautions.

- This product is for indoor use in moderate climates only.
- The supplied AC power cable must be used to power this product. If the power cord becomes damaged, it must be replaced. Always refer to qualified personnel.
- Check to make sure operating voltage of the product is identical with your local power supply, prior to connecting it to the power socket.
- To prevent fire or shock hazard, do not place the product near objects filled with liquids, or near dripping or splashing liquids.
- Install the product so the AC power cable can be unplugged from power socket immediately, in the event of a problem.
- The unit should not be placed near sources of open flame. No open flame sources, such as candles, should be placed on the unit.
- Should any solid object or liquid fall into the cabinet, unplug the product and have it checked by qualified personnel before operating it any further.
- Proper grounding: For protection from lightning and static discharge the antenna connected to this set top box must be connected to earth ground. The proper grounding can be achieved by connection to the earth ground system of your house/building, or by a qualified installer.
- Do not expose the product to high temperatures, such as placing it on top of other product that produce heat or in places exposed to direct sunlight or spot lights.
- The ventilation slots on top of the product must be left uncovered to allow proper airflow into the unit. Do not stand the product on soft furnishings or carpets. Do not stack electronic equipment on top of the product.
- Do not place the product in a location subject to extreme changes in temperature. The temperature gradient should be less than 10 degrees C/hour.
- Place the product in a location with adequate ventilation to prevent the build-up of heat inside the product. The minimum ventilation space around the unit should be 7 cm. The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table cloth, curtains, etc.
- The product is not disconnected from the AC power source (mains) as long as it is connected to the power outlet or wall socket, even if the product is turned off.
- If the product will not be used for a long period of time, disconnect it from the AC power outlet or wall socket.

**Trademarks**

- **Dolby Digital:** Manufactured under license from Dolby Laboratories. 'Dolby' and the 'double-D' symbol are trademarks of Dolby Laboratories.
- **MP3:** MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson

**Note**

## Installing Receiver

### 1. Package Content

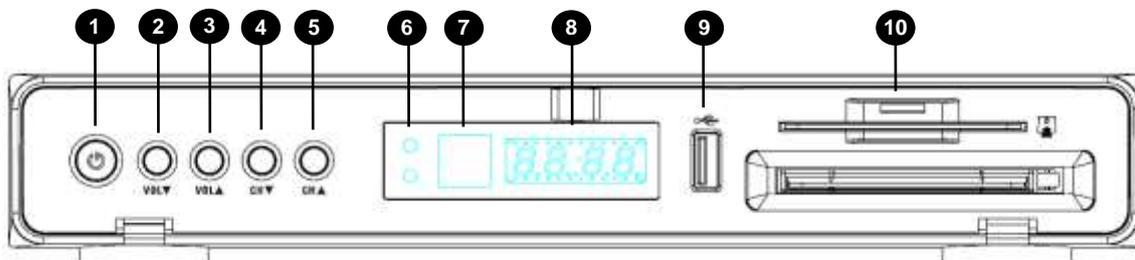


- Set top box
- Remote Control & Batteries
- HDMI Cable (Option)
- DC Power Adapter
- User Manual

Note: The accessories may differ from above picture.

### 2. Product Overview

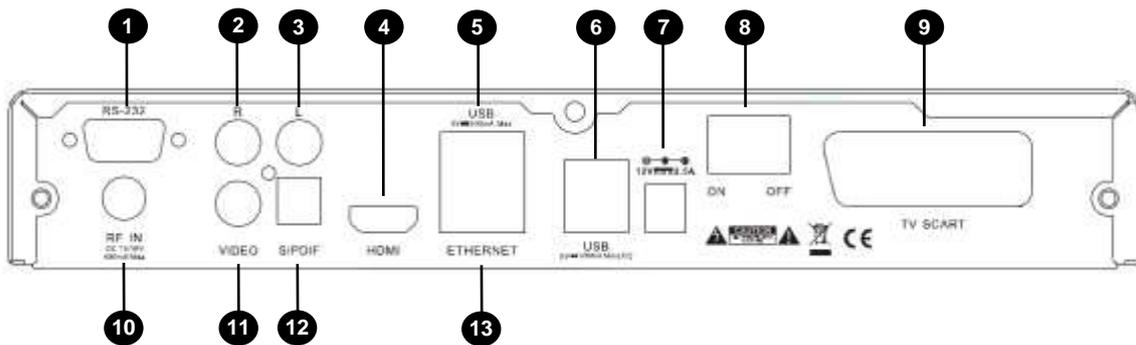
- The front panel of the Set top box has buttons to control the Set top box, and specific lamps and a display to indicate its status. The following indicates what they mean.



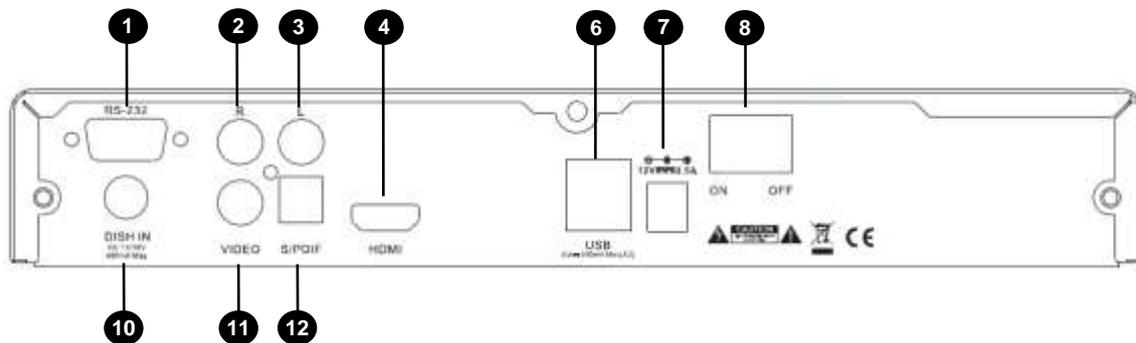
- ① Power: To switch Set top box in and out of standby mode.
- ② VOL▼: Volume control
- ③ VOL▲: Volume control
- ④ CH▼: Switches channel
- ⑤ CH▲: Switches channel
- ⑥ LED: Power indicator
- ⑦ IR in: Receiver of Remote Control
- ⑧ Front display: Displays the current service in operation mode.
- ⑨ USB: Connect a USB storage device
- ⑩ Smartcard reader slot: Smartcard slot is provided

The Set top box has a wide range of connections on the back.  
Check what connections your television has in comparison with the digital receiver.

[with SCART model: ]



[without SCART model: ]

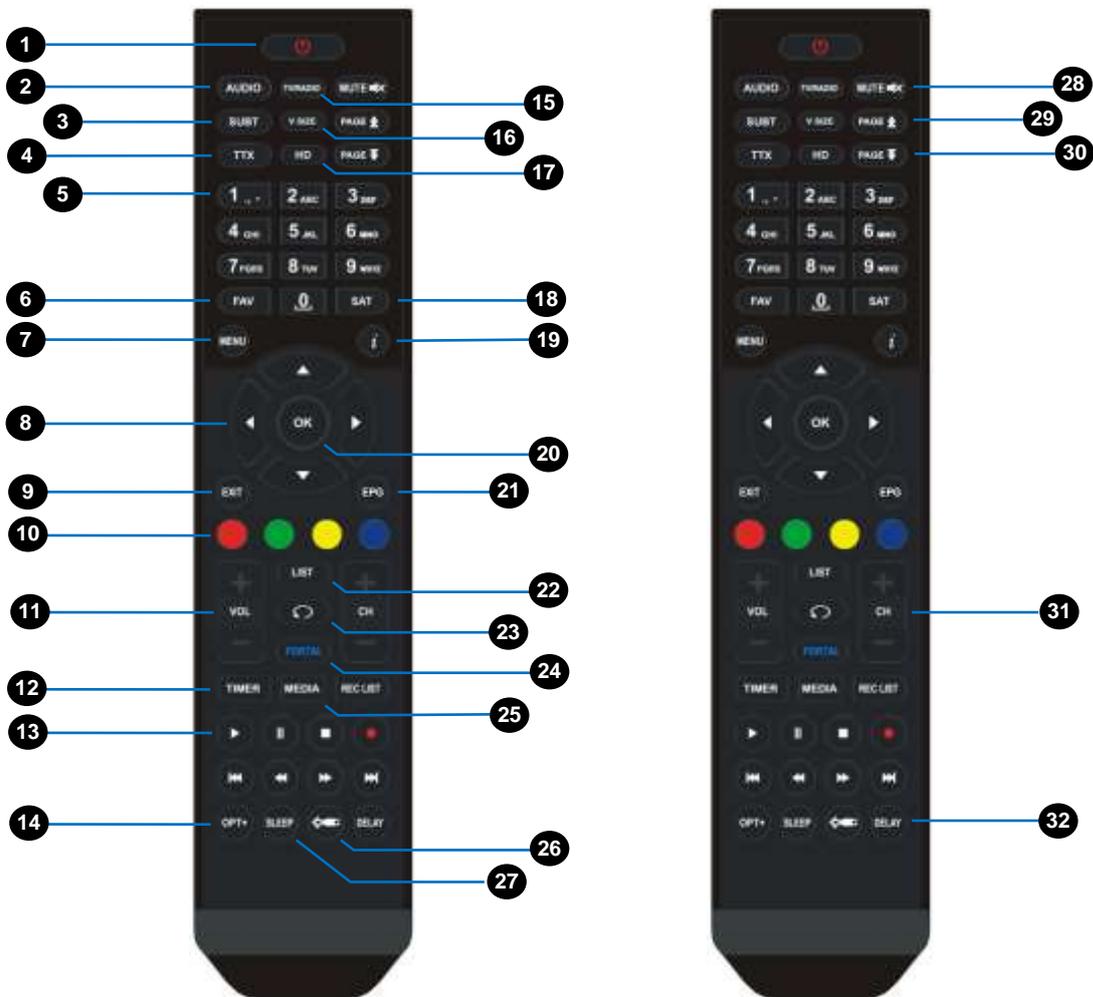


- ① RS 232: RS232 serial data port. (Option)
- ② AUDIO R: Stereo audio output socket for the television set or the audio-video receiver (red).
- ③ AUDIO L: Stereo audio output socket for the television set or the audio-video receiver (white).

- ④ HDMI: Audio and video output socket for the high definition television set.
- ⑤ USB: Connect a USB storage device
- ⑥ USB: Connect a USB storage device
- ⑦ DC IN: Connect the detachable DC power adapter
- ⑧ POWER ON/OFF SWITCH: Control power on and off.
- ⑨ TV SCART: Audio and video output socket for the television set.
- ⑩ RF IN (DISH IN): Satellite broadcasting signal input socket for the first tuner (Current: Max.400mA with overload protection).
- ⑪ VIDEO: Composite video output socket for the television set (yellow).
- ⑫ S/PDIF OPTICAL: Optical-type digital audio output socket for the audio-video receiver.
- ⑬ ETHERNET: Local area network port.

Note: The image shown may differ from the actual product.

### 3. Remote Control



- ① **POWER:** To switch the receiver in and out of stand-by mode.
- ② **AUDIO:** Displays the audio track.
- ③ **SUBT:** To select a subtitle language for the viewing program, if serviced.
- ④ **TTX:** To display teletext service on the screen in viewing mode, if serviced.
- ⑤ **0-9, Numeric buttons:** Enters a service number for service change or to specify values for menu options.
- ⑥ **FAV:** Shows your favorite list. In this menu you can choose your favorite list items.
- ⑦ **MENU:** To display Main menu screen at once.
- ⑧ **▲▼◀▶, Arrow buttons:** Navigates up/down and left/right on the menu options.
- ⑨ **EXIT:** Exits a menu or hides on screen info.
- ⑩ **RED/GREEN/YELLOW/BLUE:** Functional buttons that is defined respectively by the feature of menu.
- ⑪ **VOL+/VOL-:** To increase or decrease the volume.
- ⑫ **TIMER:** Displays recordings by timer list.
- ⑬ **Player buttons**
  - ▶: Play.

**II:** Pause.

**■:** Stop.

**<<:** Backward skip.

**<<:** Rewind (Backward trick play).

**>>:** Fast forward (Forward trick play).

**>>I:** Forward skip.

⑭ **OPT:** To select service options.

⑮ **TV/Radio:** To switch between TV and Radio services.

○,16 **V SIZE:** To change size of video

○,17 **HD:** To change resolution of video

○,18 **SAT:** Shows your satellite list. In this menu you can choose your satellite.

○,19 **Info:** Displays the service information box. It is also used to display more information about a program.

○,20 **OK:** Confirms the selected menu option.

○,21 **EPG:** Displays the program guide for the available channels.

○,22 **LIST:** Channel list in live mode.

○,23 **BACK:** To switch between the current service and the previously viewed one. If pressed when the menu is already shown, it gets one step backward the menu.

○,24 **PORTAL:** Enters Portal service.

○,25 **MEDIA:** Displays Multimedia menu.

○,26 **Remove USB:** To remove inserted USB device.

○,27 **SLEEP:** To set sleep timer.

○,28 **Mute:** Mutes the audio.

○,29 **PAC▲** : To toggle up the pages.

○,30 **PAC▼** : To toggle down the pages.

○,31 **CH+ /-:** To switch between programs (channels).

○,33 **DELAY:** To delay transport stream (Option)

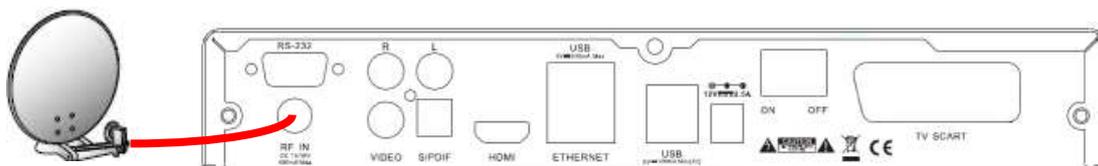
Note: The image shown may differ from the actual product.

## 4. Connections

### 1) Connecting Satellite Cables

#### A. Satellite Cables

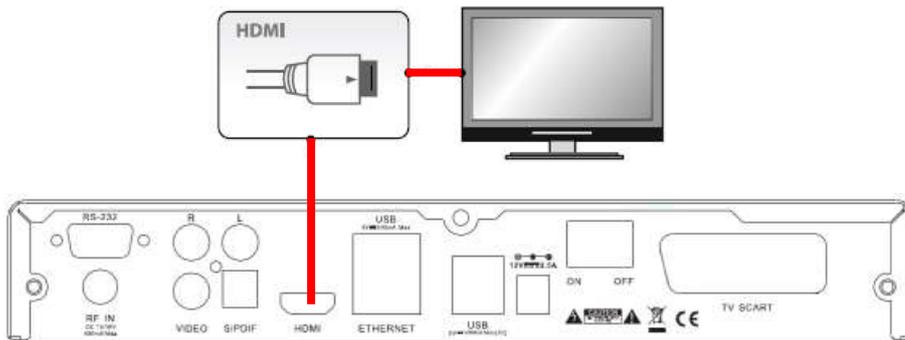
Connect the cable to RF IN (DISH IN) input.



## 2) Connecting the TV

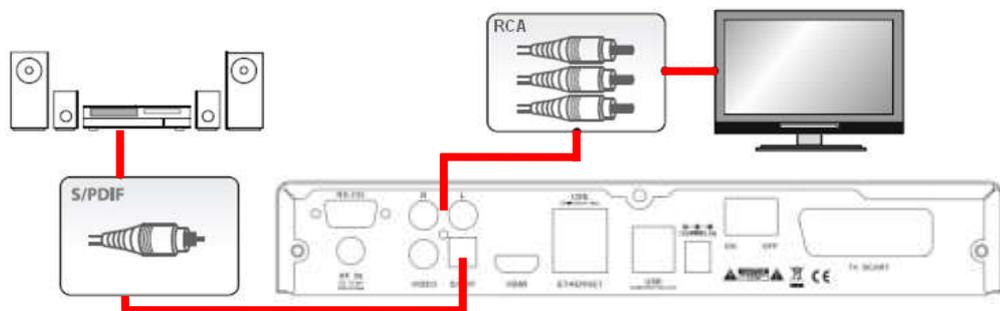
### A. Connecting TV via HDMI cable

For the sake of the best picture quality, especially for digital TV, HDMI connection is recommended. Most HDTVs have HDMI connectors to ensure the highest picture quality. IN the rear panel of Set top box one HDMI connector is available for this purpose. Connect your TV to Set top box using a HDMI cable as follows.



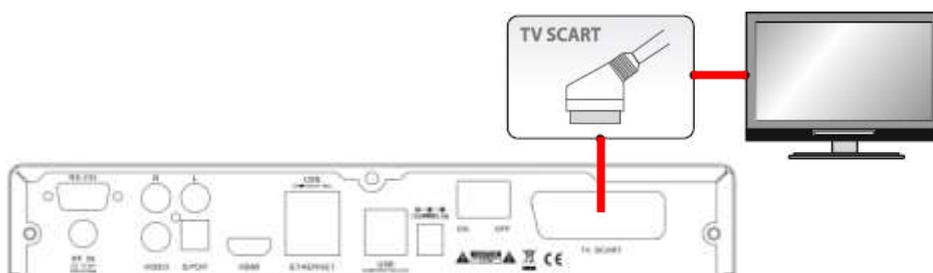
### B. Connecting TV via Component Cable and S/PDIF Cable

This secondly recommended TV connection for TV is via Composite cable. Set top box provides Composite video has normally three connectors at the both end; one Video (Yellow) and two Audio (White / Red). Connect your TV to Set top box as follows. To use the audio amplifier connect S/PDIF cable instead of two Audio cables.



### C. Connecting TV via SCART cable (with SCART model only)

In case your TV is analogue TV, SCART cable is the most common method. Connect your TV to Set top box using SCART cable as follows.



## 5. How to Install

Note: The image shown may differ from the actual product.

### 1) Starting up...

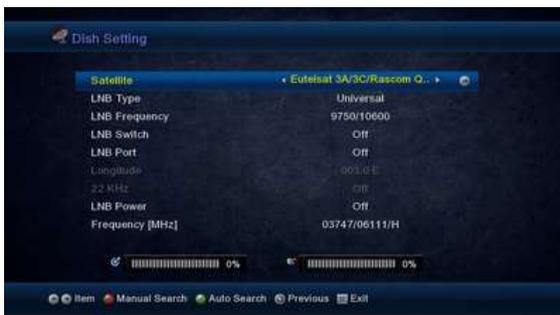
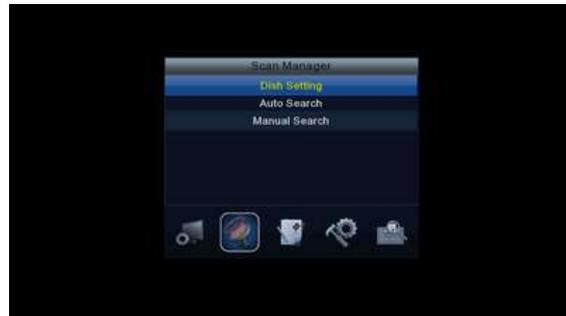
Now that you have your digital receiver connected. Ensure that your television set is turned on, so that you will be able to see the display from the digital receiver.

And press  button on the top left corner on the remote control then you may see a welcome screen. Please wait until the progress bar becomes 100%.



### 2) Installation

To configure your equipment (satellite dish and LNB) you will need to adjust following sub-lines under **Scan Manager** menu.



### 3) Dish Setting & LNB Setting

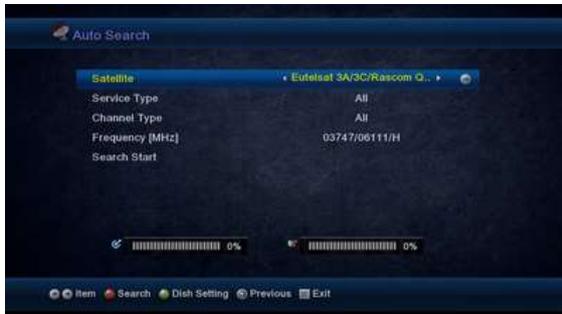
You can choose tuner configuration types in **Dish Setting**.

Please press  button to edit dish configuration.  
Please select the switch type and connect satellites into port.



### 4) Search Channel Services

Once you have completed all settings in Automatic or Manual Scan menu, press  Start Search button.



Please wait until the progress bar becomes 100% and displays the "Scan done." message.  
If you received the "Scan done" message, then you have completed basic settings to start watching / listening to.



## 5) Language Setting

You can select your proper main **Language** from the list.

Select the **Menu > SYSTEM > System Settings > Language Setting** menu.

Move selected bar by using the [▼/▲] button to find right main Language.

You can also select the **Language** of audio track and of subtitle track.



## 6) Time and Date (Ethernet model only)

You may update local **Time and Date**.

Select the **Menu > SYSTEM > System Settings > Miscellaneous > NTP Server Setting** menu. You can select the city and apply with RED button. Time and Date will be set automatically by TOT, carried as part of the digital television broadcast.



## 7) Audio & Video Settings

You have to configure the **Audio and Video Settings** appropriately for your television set and other appliances. Select the **Menu > SYSTEM > System Settings > Audio & Video Setting** menu.



## 8) OSD Settings

You can adjust on screen display at **OSD Settings** menu. Select the **Menu > SYSTEM > System Settings > OSD Setting** menu.

You can set desired OSD through several options like below picture.



## 9) Multimedia

Select the **Menu > SYSTEM > System Settings > Multimedia** menu. You can adjust subtitle synchronization and color under **Multimedia** menu.



You can also change the **Font Size** and **Decoration**.



## 10) Network Configuration (Ethernet model only)

Set top box is integrated with standard 10/100Mbps Ethernet with RJ 45 connector. You are recommended to use this network capability of Set top box to fully enjoy the system. You can set up the network settings through **Network Configuration** menu.

Select the **Menu > NETWORK > Network Configuration** menu.



In the **Network Configuration** menu, you will see sub menus as following picture.

The easiest way to configure the network settings is to assign a dynamic IP address to the digital receiver by setting the IP Connection Type option to **DHCP**. It will automatically detect the correct IP address.

When the digital receiver is restarted, the dynamic IP address could be changed more often than not, and you will have to check what it is to access the digital receiver. To avoid this cumbersome thing, you had better assign a **Static IP** address rather than dynamic one.

To assign a static IP address, set the Connection Type option to Static, then the IP Address, Subnet Mask, Gateway, Primary DNS and Secondary DNS options become enabled. You have to set these options to match with the configuration of your router.



### 11) Power Management

Set top box is designed to be energy efficient and to guarantee the power consumption to be under 0.5Watt in the **Green Power** mode.

You can minimize the standby power consumption to below 0.5Watt.



### 12) System Information

This menu is for you to check the current system of your Set top box. You can see the following information.



## 6. Menu Structure

### 1) Main Category



Note: The menu items and structure may be changed without notice.

## 2) Sub Category (SYSTEM)

System setting	Language Setting
	Multimedia
	Video Setting
	Audio Setting
	OSD Setting
	Parental Lock (Initial password : 0000)
Scan Manager	Dish Setting
	Auto Search
	Manual Search
DB Manager	Satellite
	Channels
	Transponders
Miscellaneous	NTP Server Setting (Ethernet model only)
	Network Configuration (Ethernet model only)
	Power management
	Standby Control
	Factory Reset
Others	Software Information
	Software Upgrade

## Basic Operation

### 1. Channel Navigation

You can change the channels in a few ways.

- Press the **CH+/CH-** button.
- Enter the channel number directly. **(0-9)**
- Go to the channel list or TV guide and select a channel.
- Press the **TV/Radio** button to switch between TV and radio channels.
- Press the **BACK** button to return to the previous channel.

### 2. Volume Control

You can adjust the volume as follows.

- Press the **VOL+/VOL-** button to adjust the audio volume.
- Press the **MUTE** button to stop the audio temporarily.

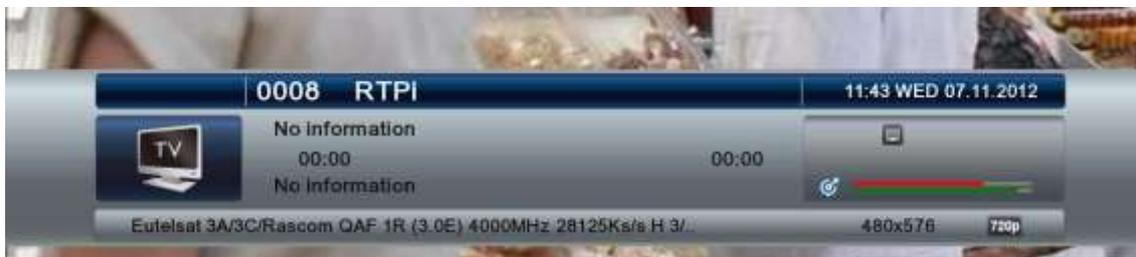
### 3. Audio Language Control

Audio options are available only when the program supports multiple audio languages.

- Press the **AUDIO** button.
- Select the audio language.
- Select the audio direction.
- Press the **OK** button.

### 4. Program Information (Information Banner)

Program information is always displayed for a certain period of time whenever you switch channels. You can view the program information by pressing the **Info** button while watching a program. Press the **EXIT** button to hide the information banner.



## 5. LED Display

Set top box has a LED segment display.  
It is a 4-digit 7 segment LED displaying channel names and program information.



## 6. Resolution / Display Format Setting

You can decide which resolution and Display Format to use according to the video output and your TV.

### High definition television

The digital receiver supports various video resolutions from 576 to 1080. In general, a resolution of 720 or more is considered high definition. The higher the resolution is, the better the quality is. However, if your television set does not support high definition, you cannot enjoy high definition quality picture.

Set the Video Format option as you desire. If you set this option to 576P, the digital receiver will present even high definition programs in resolution of 576. On the contrary, if you set it to 1080P, the digital receiver will present even standard definition programs in resolution of 1080.



### Audio and Video settings

You have to configure the audio and video settings appropriately for your television set and other devices. Go to the **Menu > SYSTEM > System Setting > Audio & Video Setting** menu. Here you will find options necessary to set up the audio and video configuration of your Set top box.

Basically, there are two audio sources as you can find two audio sockets on the back panel of the digital receiver. You can enjoy only one source or both of them in either stereo (Left/Right) or mono.



The digital receiver can output two types of digital audio signals via S/PDIF connector. One is an encoded signal

and the other is a decoded signal.

If your digital audio system does not have a Dolby Digital decoder, you have to set the Dolby Digital option to off. Otherwise, set it to Dolby Digital or Uncompressed.

## 7. Sleep Timer

Press the **SLEEP** button to set the automatic turn off time.

Each time you press this button, the value changes.



## 8. Subtitle

You can select the subtitle language when subtitle information is provided.



## 9. Teletext

Teletext is a free service broadcast which gives the latest information on news, weather and many other topics. You can use interactive services in teletext mode using **TEXT** button.



## 10. Standby mode

You can put the receiver in standby mode to reduce the power consumption while the unit is not in use. The standby mode turns off some parts of the receiver, but does not fully turn off the receiver, allowing it to start up again very quickly when the unit is turned on. When in standby mode, the standby LED indication will be shown on the front panel.

Select the **Menu > SYSTEM > System Setting > Miscellaneous > Standby Control** menu. And set the Standby Mode option.



## Service List

### 1. Using Channel Up/Down [CH+/CH-] buttons

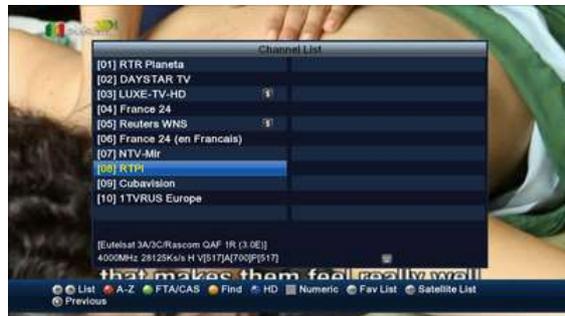
You can navigate between channels by pressing channel Up/Down [CH+/CH-] buttons. Whenever you press the CH+/CH- button, current channel will be changed to next / previous channel.

### 2. Service (Channel) List

To select the desired channel in the service list, you should firstly display the service list pressing **OK** button. Use **ARROW** [▲/▼/▶/◀] buttons to select a desired channel and press **OK** button.

You can use features defined by color icon as follows.

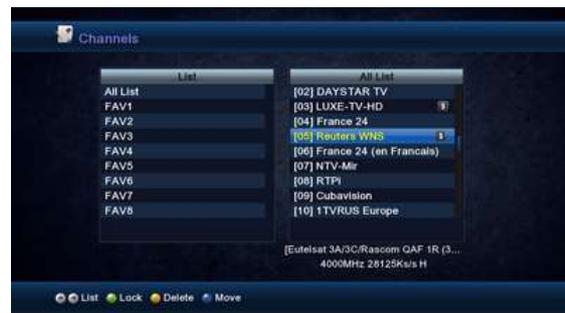
-  A-Z sort
-  FTA/CAS sort
-  Find
-  HD
-  Favorite list
-  Satellite list



### 3. Edit Services (Channels)

You can use features defined by color icon as follows.

-  Lock
-  Delete
-  Move



### 4. Edit Favorite List

You can use features defined by color icon as follows.

-  Add channel to FAV



### 5. Edit Transponders List

You can update the TP (Transponder) parameter of satellite by yourself.

-  Edit
-  Add
-  Delete



### EPG (Guide)

The TV guide is an on-screen guide of grid type which displays the program information of channels in time and date order using **EPG** button.

Press the **BACK** button to return to the previous screen.



## Multimedia

Set top box is truly a multimedia receiver capable of playing media contents. Using Multimedia Menu, you can enjoy Music, Photo and Video contents stored on the internal HDD and/or an USB memory stick plugged into Set top box.



### 1. File Sharing with PC (Ethernet model only)

You can have access to FTP Set top box server and play the video, music, or photo files. To connect to a Set top box, the receiver must be connected to the local network.

### 2. External USB Devices

Go to Multimedia > Storage List, you can find storage list connected your Set top box as follows.

- External USB: Displays each partition of the external USB.



## Portal

Set top box is integrated with standard 10/100Mbps Ethernet with RJ45 connector. You are recommended to use this network capability of Set top box to fully enjoy the systems. If your Set top box network connection is established, you can enjoy various features from a designated portal of Set top box. You can enter into this Portal Menu by pressing **PORTAL** button or selecting 'PORTAL' in the menu.

The Portal services will be upgraded with more features in the future.

## HbbTV

Hybrid Broadcast Broadband TV or "HbbTV", is a major new pan-European initiative aimed at harmonizing the broadcast and broadband delivery of entertainment to the end consumer through connected TVs and set-top boxes. You can enjoy the interactive services on the channels supporting HbbTV.

By pressing RED button in the lower-right hand corner while watching the HbbTV supporting channels, you can enter into TV Catch-Up website.



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Version 2, June 1991

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