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SAFETY INSTRUCTIONS

THIS DEVICE IS INTENDED FOR CONTINUOUS OPERATION.
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK AND ANNOYING INTERFERENCE USE SOON THE RECOMMENDED ACCESSORIES.

WARNINGS:

- . TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT USE EXTENSION CABLES OR MULTI-OUTLETS UNLESS THE MAINS PLUG CAN BE INSERTED FULLY AND PROPERLY.
- . TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS SATELLITE RECEIVER TO RAIN OR MOISTURE.

VENTILATION – DO NOT BLOCK ANY OF THE VENTILATION OPENINGS.

 <p>A triangle with a lightning symbol draws the user's attention to "dangerous voltage" without insulation in the cabinet which may be high enough to entail a risk of electric shock.</p>	<p style="text-align: center;">CAUTION</p> <p style="text-align: center;">RISK OF ELECTRIC SHOCK DO NOT OPEN</p> <p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK. DO NOT REMOVE COVER(OR BACK). THERE ARE NO USER SERVICEABLE PART INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>	 <p>A triangle with an exclamation mark draws the user's attention to important instructions for use and maintenance in the accompanying manual, which should be studied.</p>
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Always follow basic safety precautions when using electrical products, especially when children are present.

WARNING: TO avoid the risk of electrical shock, make sure the product is unplugged from the electrical outlet before relocating, servicing or cleaning it.



Electrical devices are not of children

Never allow children to use electrical devices unsupervised. Batteries/rechargeable batteries can be extremely dangerous if swallowed. Therefore keep the device and batteries out of reach of small children. If a battery is swallowed, seek medical help immediately.



Proper Recycling

Batteries and packaging material should not be disposed of in domestic waste. Batteries must be handed in to a used-battery collection point. Separated disposal of packaging material cares for the environment.



Moisture and Cleaning

This product is not waterproof! Do not immerse the unit in water or let it come in contact with water. If water penetrates the satellite receiver, it can cause serious damage. Do not use cleaning agents, which contain alcohol, ammonia, benzene or abrasives, as these can damage the unit. Use a soft, damp cloth for cleaning.



Heat

Do not expose the device to direct sunlight. Ensure that the device is not exposed to any direct heat sources, such as radiators or open fires. Ensure that

the ventilation slots of the device are not covered.



Important information for hearing protection

Caution:

Your hearing is important to you and us.
Therefore please be careful when using this device.

We recommend: Avoid high volumes.

If the device is to be used by children, make sure the device is not set too loud.

Attention!

Volumes that are too high can cause irreparable damage to children's hearing.

Setting A Safe Volume Level:

- If you continually listen to loud music, your hearing gradually adapts to it and gives you the impression that the volume is lower.
- What seems normal to you can actually be damaging.
- To protect yourself, set the volume to a low level.
- Increase the volume slowly, until you can hear clearly and without problems.
- Damage to your hearing can be extensive and cannot be reversed.
- If you notice a problem with your ears, please consult a doctor.

Interference with other devices

Please move this satellite receiver to a different position, if interferences with other TV sets or radios should occur.

IMPORTANT SAFETY INSTRUCTIONS

1. **READ INSTRUCTIONS** - All the safety and operating instructions should be read before the appliance is operated.
2. **RETAIN INSTRUCTIONS** - The safety and operating instruction should be retained for future reference.
3. **HEED WARNINGS** - All warnings on the appliance and in the operating instructions should be adhered to.
4. **FOLLOW INSTRUCTIONS** - All operating instructions should be followed.
5. **WATER AND MOISTURE** - The appliance should not be used near water, for example, near a bathtub, washbowl, kitchen sink, laundry tub, swimming pool or in a wet basement.
6. **VENTILATION** - Openings in the device serve its proper ventilation, are necessary for the operation and prevent overheating. The appliance should be situated so that its location or position does not interfere with its proper ventilation. Do not place on bed, sofa, rug or similar surface that may block the ventilation openings. Do not place in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings. Please follow the manufacturer's instructions.
7. **HEAT** - The appliance should be connected to power supply only of the type described in the operating instructions or as marked on the appliance.
8. **POWER CORD PROTECTION** - The appliance should be connected to power supply only of the type described in the operating instructions or as marked on the appliance.
9. **POWER CORD PROTECTION** - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them.
10. **NON-USE** - During longer periods of non-use please disconnect from mains power supply and antenna.
11. **OBJECT AND LIQUID ENTRY** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
12. **DAMAGE REQUIRING SERVICE** - The appliance should be serviced by qualified service personnel when:
 - a. The power-supply cord or plug has been damaged.

- b. Objects have fallen into, or liquid has been spilled into the appliance enclosure.
 - c. The appliance has been exposed to rain.
 - d. The appliance has been dropped, or the enclosure damaged.
 - e. The appliance does not appear to operate normally.
 - f. The appliance shows a very different performance.
13. **SERVICING** - The user should not attempt to service the appliance beyond that described in the user operating instructions. All other servicing should be referred to qualified service personnel.
 14. **CLEANING** – Disconnect from mains power supply before cleaning. Do not use liquid or spray cleaners, only use a damp cloth. Follow the care and maintenance instructions in this manual.
 15. **LIGHTNING** - During lightning and longer periods of non-use please disconnect from mains power supply and antenna.
 16. **SAFETY CHECK** – After servicing the unit ask the customer service for a safety check.
 17. **OVERLOAD** - To avoid fire and electric shock do not overload wall outlets and convenience receptacles.

Please note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications. Such modifications may void the user's authority to operate the equipment. Operate tuning controls and switches only as instructed in the manual.



Professional Recycling

Batteries and packaging materials do not belong with household waste. Batteries must be taken to a collection point for old batteries. Separate disposal of packaging material helps the environment.



This product cannot be disposed of as normal household rubbish at the end of its life. It should be taken to a collection point for recycling electrical appliances. The symbol on the product, the instruction manual or the packaging gives advice on this.

The materials are recyclable according to their label. By recycling material or other forms of waste, you are making an important contribution to protecting the environment.

Please ask your local government for the location of the nearest recycling point.

Installation

Avoid installing the receiver in areas of:

- 1) Direct sunlight or heating radiators or closed automobiles;
- 2) High temperature or high humidity;
- 3) Excessive dust;
- 4) Excessive vibration, as the internal parts may be seriously damaged.

Avoid Magnetic Objects:

To avoid interferences keep magnetic objects, such as speakers, at a distance from the satellite receiver.

Stacking:

Place the satellite receiver in an upright position. Do not place the satellite receiver on amplifiers or other equipment, which may heat up.

Condensation:

If there is moisture inside the satellite receiver, it may not operate properly. Please turn off the power supply and wait about one hour for the moisture to evaporate.

Mains Power Supply:

Heed the following instructions to avoid malfunction, fire, injury and electric shock:

- Check if the mains voltage as shown on the type plate (under the set) corresponds to

your local mains voltage. This unit is designed for **AC 90-240 50Hz**

- Connect the mains lead to the AC mains socket and the wall outlet.
- To disconnect from wall outlet only pull the plug and not the cable.
- Hold the plug tight, when connecting to or disconnecting from wall outlet.
- Do not touch the power cord with wet hands.
- Protect the power cord from heat generating devices.
- Please turn off the satellite receiver if it has been dropped or is damaged otherwise.

Battery Safety Precautions:

- Keep batteries away from children and pets.
- Insert the battery observing the polarity (+/-). Failure to properly align the battery polarity can cause personal injury and/or property damage.
- Remove exhausted batteries from the device. Remove the batteries when the device will not be used for extended periods of time to prevent damage due to rusted or corroded batteries.
- Never throw batteries into the fire. Do not expose batteries to fire or other heat sources.
- Battery disposal: exhausted batteries must be properly disposed of and recycled in compliance with all applicable laws. For detailed information contact your local municipality's waste authority.
- Follow the battery manufacturer's safety, usage and disposal instructions.

This unit will warm up when used for a long period of time. This is normal and does not indicate a malfunction.

This receiver includes microprocessors, which may malfunction as a result of external electrical interference of noise. If the receiver is not working properly, disconnect from mains power supply and then reconnect it.



GENERAL INFORMATION

Features

- Fully compatible with DVB-T FTA digital standard
- Fully compatible with MPEG-4 H.264/AVC High Definition Digital TV
- Fully compatible with MPEG-2 High Definition and Standard Definition Output
- Fully compatible with MPEG-1 Layer I & II, Dolby Digital Audio
- VHF & UHF input and LOOP OUT
- Multi-bilingual OSD language , audio language and subtitle language supported
- 1000 Channels capacity
- Fully support to Electronic Program Guide(EPG)
- Support Picture in Graphics(PIG)
- Support Auto search and Manual search
- Parental control for channels
- Plug and Play installation with an ease to use Menu System
- Coaxial S/PDIF Digital audio output interface
- 576i, 576P, 720P, 1080I Video Resolution supported
- Support 4:3 and 16:9 Aspect Ratio
- Support EBU TELETEXT
- DVB or EBU subtitle selected by the system based on availability on the network
- Various channel editing function(Favorites, Move, Lock, Delete)
- Support HDMI High Definition Multimedia Interface(HDMI 1.3)
- Software upgrade via USB2.0 interface
- High sensitivity, low Eb/No for receive Digital Television
- USB 2.0 interface PVR and media player
- Record digital television FTA program to a USB Flash Drive or an external USB portable hard disk and playback via USB2.0

Connecting to Digital Receiver

- ✧ Connect the cable from the antenna to ANT IN with connector
- ✧ Connect RCA VIDEO/AUDIO jack to TV
- ✧ You can connect an coaxial single cable from the SPDIF/DIGITAL AUDIO socket on the STB to a Hi-Fi system equipped with digital audio input. This output is also used for connection to an external Dolby digital decoder.

Front Panel Information:



POWER: Power ON/OFF.

CH+: This button makes you change to previous channel or move to the upper item in the menu.

CH-: This button makes you change to next channel or move to the item in the menu.

LED INDICATOR:

RED: The receiver is connected to power.

GREEN: The receiver is operating.

USB2.0: PVR Ready and Software upgrade

Rear Panel Information



RF IN: To be connected to the terrestrial antenna.

RF OUT: Output of Digital Terrestrial TV Broadcast signal

AC90-240V 50-60Hz: To be connected to the 90-240V, 50-60Hz AC power.

TV SCART: TV SCART Video output

HDMI: Digital HDTV video output with HDCP.

S/P DIF: Output for connection to a digital amplifier.

:

Remote Control Unit

MUTE: Used to enable or disable the audio.

⏻: For switch your receiver on from stand by or off to stand by.

TV / RADIO: Receiver switches between TV and Radio mode.

NUMERIC KEYS: Used to select channels or enter programming parameters.

RECALL: Return to the previous menu or switch to the last view channel.

MEMU: Display the Main Menu on the screen.

EXIT: Cancel the user selection and return to the viewing mode from a menu.

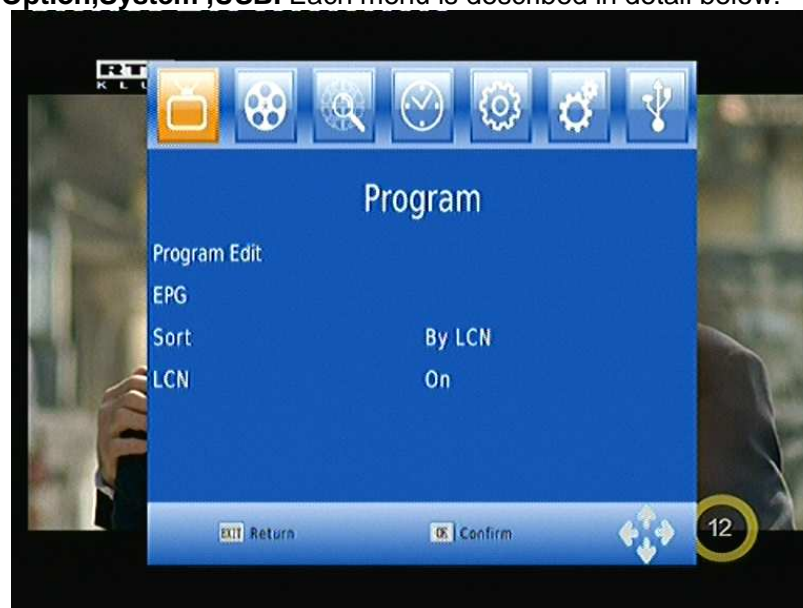
FAV: To entry and display favorite channel list

EPG: Display the TV/Radio Program Guide
VOL+/-: Move left of right highlight marked cursor. And increase or decrease the volume.
CH+/-: Move up or down highlight marked cursor. Tune to the next or previous channel.
PG UP / DOWN
 Move up the cursor to the next or previous page in the menu or channel list.
OK: To select menu option, or to update on entry. And to display channel list.
AUDIO: To select audio mode; Left, Right, Stereo, language.
PAUSE: To select the freeze function.
INFO: To display channel status or various program information of current service.
TXT: To open the teletext
USB: To enter the USB menu directly or stop to play the USB file in play mode.
 ▶▶ ◀◀ Backward forward when the USB file played.
 ▶▶ ◀◀
 ▶||: To play the file in the USB disk and Pause.
 ◀◀ ▶▶: Play back or next between 2 file
 Enter the time-shift mode. And pause to play or record.
RECORD: Record the channel
RECALL: Move to the previous channel
TV/VCR: Change between Terrestrial TV and VCR mode.
P.STD: Select the PAL/NTSC mode
SUB: Show the subtitle in programe.



Menu Description

Press the **Menu** key on your remote control to see the **Main Menu** on the screen. If you select one of the highlighted icons, a sub-menu will be shown on the TV screen. To leave the menu, press **EXIT/MENU** key. The **Main Menu** contains **Program, Picture, Channel Search, Option, System ,USB**. Each menu is described in detail below:



Program

If you edited the channel list when you exit the menu there is a message will appear which say are you sure to save? Select the "OK" button to save the modification, and select the "EXIT" button to cancel the modification.
 Edited the Channel, system will ask you to enter the password. The default password is "000000".

Program Edit

Enter this menu the screen as following:



Lock:

Press red key to enable the lock function. And select a channel to be locked and press OK

Skip:

Press green key to enable skip function. Select a channel to be skipped and press OK;

Move:

Press yellow to enable move function first, then select a channel and press OK, then press ▲/▼ to move a channel. And confirm with OK

Delete:

Press UP or DOWN key to select the channel which you want to delete in the channels list

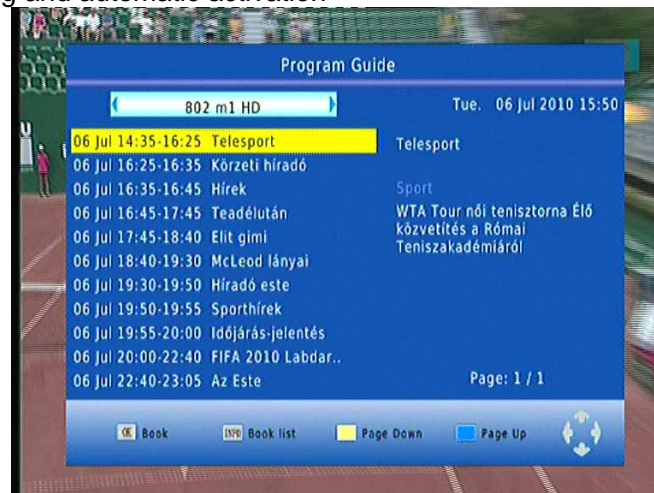
FAV:

Please choose a Favorite group which you want to take current program in, then press "Left/Right" to choose a group,. Press "Exit" button to exit.

EPG

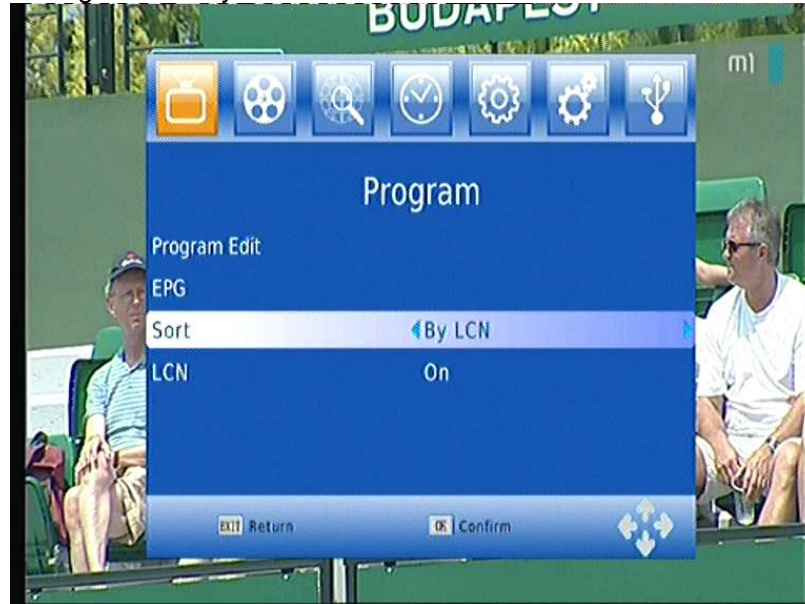
Enter this menu the screen as following:

press EPG to display information for the current channel in menu .Offers timer- controlled recording and automatic activation



Sort

Enter this menu the screen as following:
Used to change the list by different sort



LCN

LCN Mode can control the channel whether sort by the sequence information in the streams. The option is: On / Off. You can press [Left/Right] key to select each mode circularly.



Picture

Enter this menu the screen as following:

- Aspect Mode: Change the aspect ratio to 4:3PS, 4:3LB, 16:9
- Resolution: Change the 576i, 576P, 720P, 1080I Video Resolution
- TV Format: Change the display mode to Auto, PAL, NTSC.
- Video Output: Change the SCART output signal to CVBS or RGB



Channel Search

When you enter to "Installation" menu, there will display the screen like below:



Press [Up/Down] key to select menu items among each item. Press [OK] key to enter the selected item.

Auto Scan

When you enter to "Auto Scan" menu, there will display the screen like below:



Firstly please select the country in System Setup Menu / Region and Time / Region, such as “France”. In “Scan Mode” item, press [Left/Right] key to select scans all channels or just scans free channels. Move the highlight to “Search” item and press [OK] key to start scanning.

In the “Auto Scan” menu, press [Exit] key to draw back from the scanning.

Manual Scan

When you enter to “Manual Scan” menu, there will display the screen like below



When you complete your modification, move highlight to “Frequency channel” item and press [OK] key, then it will begin to scan. Press [Exit] key to exit the scanning.

Country



Select the country which you are in. You can press [Left/Right] key to select each mode circularly.

Antenna Power

When you enter to "Tuner Setting" menu, there will display the screen like below:
Tuner Power: On / Off



Time

Enter this menu the screen as following:



Time Offset: If GMT (Greenwich Mean Time) is provided by the broadcaster, the time setting can be made with GMT; or set your time manually. If GMT Usage is set to Auto, the current time is set automatically.

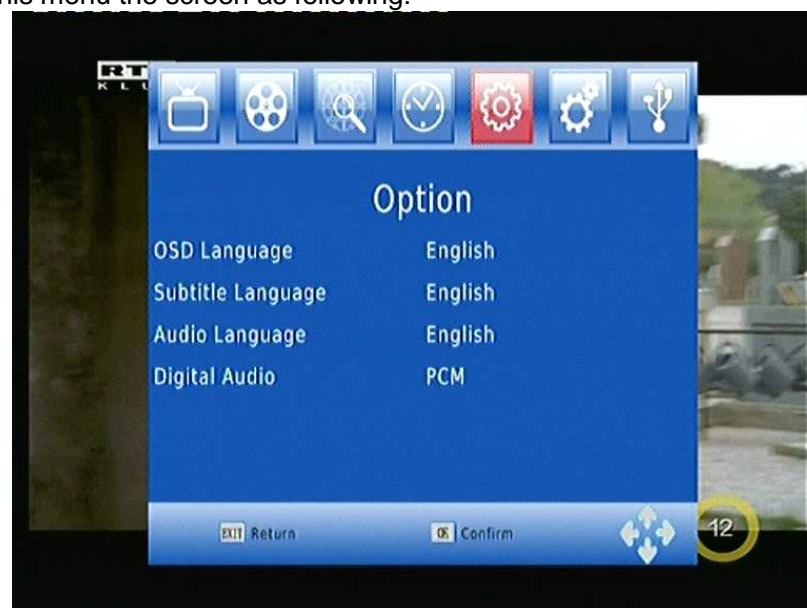
Time Zone : If you set GMT Usage to Off, Time and Date are activated;

Date: set the current date.

Time: Set the current time.

Option

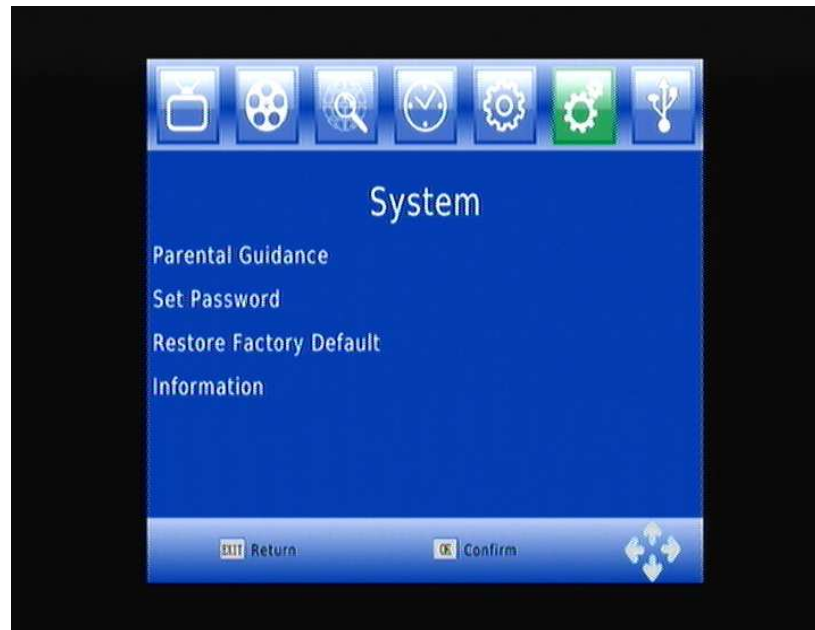
Enter this menu the screen as following:



Select the highlighted item then press **OK** to choose from the list of languages,. Here you may select in which language the menus will be shown. Press [Left/Right] to select the language you prefer for menu, the selected language will be applied on whole menu. Press [Left/Right] to select the language you prefer for Audio, Subtitle.

Syystem

Enter this menu the screen as following:



Parental Guidance: set the channel which user wants to lock it. It has options "Off/Manual/Age4~Age18". OFF means turning off program lock function. Manual means user manually lock which program he want to lock, if this option is selected, user must enter channel list and mark it as locked. Age4 to Age18 means locking all programs by the programs age limit level, for example, Age 13 is selected, the age limit level no. greater than 12 will be locked. You have to input password to unlock.

Set Password: Change the password

Restore Factory Default: This function will reset all of the parameters to restore default values.

Information: Display software versions detail.

USB Multimedia

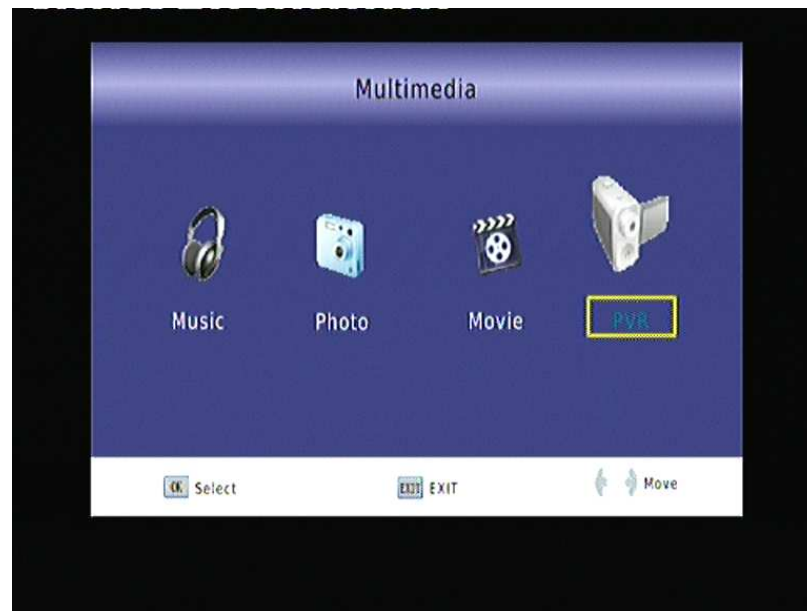
Multimedia player feature also has been integrated on the receiver. Press PVR key to display multimedia player window. You could show your preference photo, playing music and movie on multimedia player. Known supported file were illustration below. NTFS, FAT32 and FAT16 file system could be supported at the moment.

Player Supported file

Photo JPEG, BMP, PNG

Music *.wma, *.mp3, *.m4a, *.aac

Movie *.avi, *.mpg, *.dat, *.vob, *.div, *.mov, *.mkv, *.mjpeg, *.ts, *.trp, motion jpeg



Music

1. In main menu to choose **Music** item press **OK** key to enter Music main directory.
2. Press **OK** key to enter next directory, every directory can show music file and folder name only.



Photo

1. In main menu to choose Photo item press OK key to enter USB main directory.
2. Press ENTER key to enter next directory, every directory can show photo file and folder name.



Movie

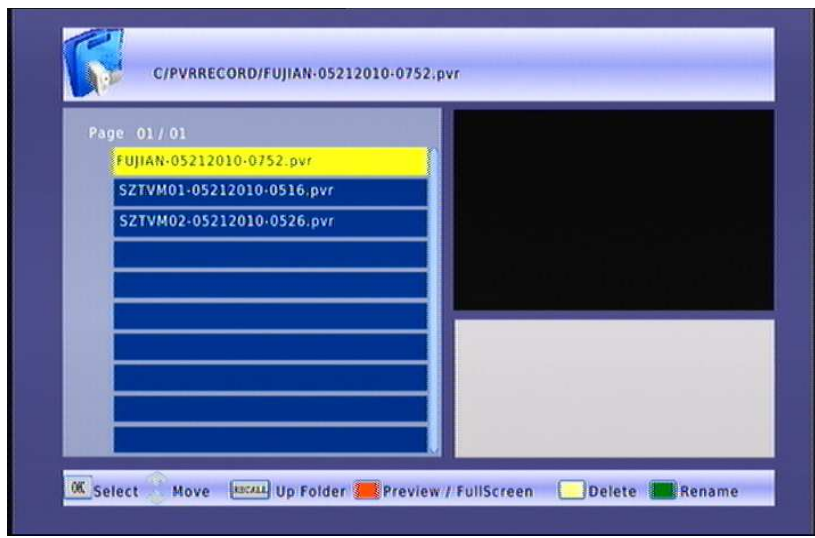
1. In main menu to choose Movie item, Press OK key to enter USB main directory.
2. Press OK key to enter next directory, every directory displays only movie file and folder name Press EXIT key to return previous directory



PVR

Press "REC" key when watching TV, there is a channel list which will list all channels available for recording under current frequency, user can select one channel from the list and press OK to start recording into hard disk. A Recording toolbar can be accessed through remoter while recording. There are four buttons on the toolbar, ◀◀ for fast-rewind, || for pause, ■ for stop, and ▶▶ for fast-forward.

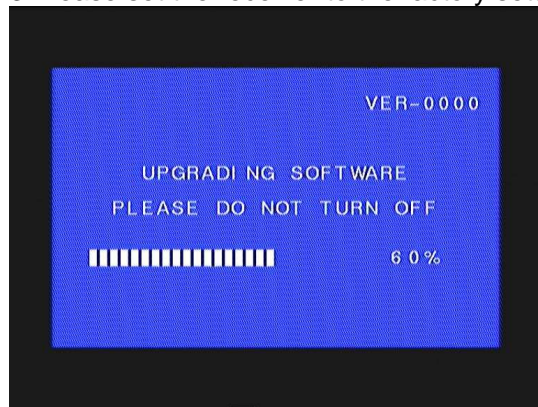
User can play back the recorded TS file, there are seven buttons can be accessed through remoter on the toolbar, |◀◀ for skip to previous stream, ◀◀ for fast-rewind, ▶ for play, || pause, ■ for stop, ▶▶ for fast-forward, ▶▶| for skip to next stream, and **Time Locate** button can be activated by pressing any number key.



USB Software Update



1. Plug the USB drive that with the update file to the USB interface of the receiver.
2. While the upgrade progress showing 100% and update finish, remove the USB flash drive and power on the receiver again.
3. Please set the receiver to the factory settings after reboot the receiver.



Specification

Tuner

Input Connector	IEC 16902. Female
Input Frequency Range	VHF&UHF
Input impedance	75 ohm
RF output Connector	(bypass)IEC 169-2 Male
Loop through	47-862 MHz

Demodulation

Standard	ETSI EN300 744
Guard interval Modes	1/32,1/16,1/8 Active Symbol duration
FEC Modes Rate	1/2,2/3,3/4,5/6,7/8
Carriers/Constellation	All modes supported including non hierarchical
Demodulation	COFDM(QPSK/QAM16/QAM64) 2K and 8K
Network	MFN/SFN
Channel bandwidth	7 and 8 MHz wide channel 21-68PLL

Video Decoder

Standard	ISO/IEC 13818-2 and ISO/IEC 14496-10
Transport stream	ISO/IEC 13818-1
Video decoding	MPEG-2 SD/HD (MP@ML and MP@HL), MPEG-4 H.264/AVC SD/HD DivX 3.X ~ 6.X JPEG,BMP,PNG, Motion JPEG AVI, VOB, MOV, MKV
Aspect ratio	4:3, 16:9

Audio Decoder

Standard	ISO/IEC13818-3 TR1011154
Audio decoding	MPEG-1 and MPEG-2 Layer I & II, Dolby Digital Audio, E-AC3,WMA and HE-AAC Digital Audio
Dolby Digital (AC-3)	Stereo down-mixing to analog and digital audio outputs (including HDMI). For digital outputs, L-PCM stereo encoding is provided
Sample rate	32 kHz, 22.1 kHz, 44.1KHz,48 kHz

Subtitles & Teletext

Subtitle	DVB Subtitle
Teletext	EBU TELETEXT

Rear Panel

RF IN	To be connected to the Antena cable
RF OUT	Connect to other STB set.
Optical S/PDIF	Digital Audio output
SCART	TV SCART
HDMI	Digital HDTV video output with HDCP. HDMI version 1.3

Front Panel

bi-colored LED	Red / Green to indicate the various states of the STB
USB2.0	PVR Ready and software upgrade
Keys	3 keys (Standby, CH+, CH-)

Accessories

Remote control unit	IR (36kHz) RC3 / other on request (38kHz)NEC
User Manual	1

Power

AC input range	12V/1.5A
Power consumption	< 18W
Standby consumption	< 1W

Physical

Operating Temperature	+5 ~ 45 °C
Storage Temperature	-10 ~ +70 °C

Trouble Shooting

If you suspect there is a fault with your receiver, please check the following trouble shooting guide before calling an authorized service agent.

Warning! Under no circumstances attempt to repair the receiver yourself. Tampering with the receiver may result in fatal electric shock and will invalidate your warranty.

Symptom	Possible cause
No display on the LED Display Panel	<ul style="list-style-type: none"> • The power cord is not plugged in correctly.
No picture on the screen	<ul style="list-style-type: none"> • Receiver is in Standby mode. • RCA Jack is not connected firmly to the video output port of television. • Incorrect channel or video output is selected on television. • Brightness level of your TV set is incorrectly defined. <p>No picture on the screen</p>
No sound	<ul style="list-style-type: none"> • RCA cable is connected incorrectly. • The Volume level is low. • Muting function is active.
Poor Picture Quality	<ul style="list-style-type: none"> • The level of Signal strength is low.
Receiver not responding to remote control unit	<ul style="list-style-type: none"> • RCU batteries are dead or inserted incorrectly. • The RCU is pointing toward wrong direction.
Receiver is on but no picture or sound except the following messages(No signal, Locked channel, Not available)	<ul style="list-style-type: none"> • Channel is not available. • Channel is locked. • Service installation not yet done.
No Signal	<ul style="list-style-type: none"> • The level of signal is low. • Check aerial. • The cable from the aerial is incorrectly connected.
Settings you made in the menu have now changed	<ul style="list-style-type: none"> • The receiver lost power before being able to enter into standby mode. • Some of the Settings saved by user can be deleted partly or fully.