




**Digital Cable
MPEG4 SD
RCU - 039**



**Installation Manual
&
User Manual**

SAFETY PRECAUTION

CAUTION:		
		
The lightening 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: 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 place naked flame sources, such as lighted candles on the apparatus; otherwise, there is the danger of fire.

WARNING: The unit should be connected to a power supply only of the type descry bed 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: Take attention to the environmental aspects of battery disposal. 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.

WARNING: Ensure a minimum distance of 5 cm around the apparatus for sufficient ventilation.

WARNING: Ensure that the ventilation is not impeded by covering the ventilation openings with items such as newspapers, table-cloths, curtains, etc.

WARNING: Use the apparatus only in moderate climates (not in tropical climates).

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 machine 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 machine 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 machine.

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.

Contents

1. Remote Control & Housing	3
1.1 Front Panel Description	3
1.2 Rear Panel Description	4
1.3 Remote Control Description	5
2. Basic Operations	7
2.1 Switch On Machine	7
2.2 STANDBY	7
2.3 MUTE	7
2.4 TTX	8
2.5 SUB-T	8
2.6 AUDIO	8
2.7 Channel Number (0-9)	8
2.8 LAST	8
2.9 TV/RADIO	8
2.10 INFO	8
2.11 CH+/- ▲/▼	9
2.12 VOL+/- ◀/▶	9
2.13 OK	9
2.14 MENU	9
2.15.EXIT	9
2.16 ZOOM	9
2.17 EPG	9
2.18 SUB	10
2.19 REC ●	10
2.20 FAV	10
2.21 REW/ FFW ◀◀/▶▶	10
2.22 PLAY/PAUSE ▶ 	11
2.23 STOP ■	11
3. Edit Channel	11
3.1 TV Channel List	11
3.1.1 Favorite	12
3.1.2 Lock	13
3.1.3 Skip	13
3.1.4 Move	13
3.1.5 Edit	13
3.2 Radio Channel List	14
3.3 Delete All	14
4. Installation	15
4.1 Quick Search	15
4.2 Auto Search	16
5. System Setup	16
5.1 Language	17
5.2 TV System	17
5.3 Display Setting	18
5.4 Timer Setting	18
5.5 Parental Lock	19
5.6 OSD Setting	19
5.7 PVR Storage Information	20
5.8 PVR Setting	20

6. Tools	20
6.1 Information.....	21
6.2 Factory Setting	21
6.3 Software Upgrade by OTA.....	21
6.4 Upgrade by USB.....	22
6.5 Remove USB device safely	22
7. Media Player	23
7.1 PVR	23
7.2 Video	24
7.3 Music	24
7.4 Image.....	25
8. Troubleshooting	26
9. Technical Specification	27

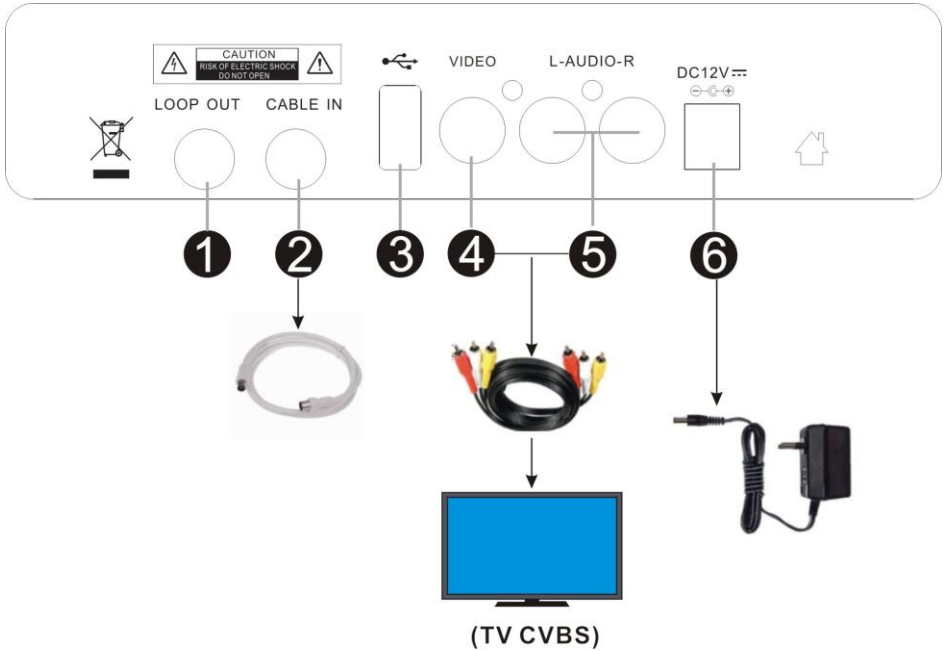
1. Remote Control & Housing

1.1 Front Panel Description



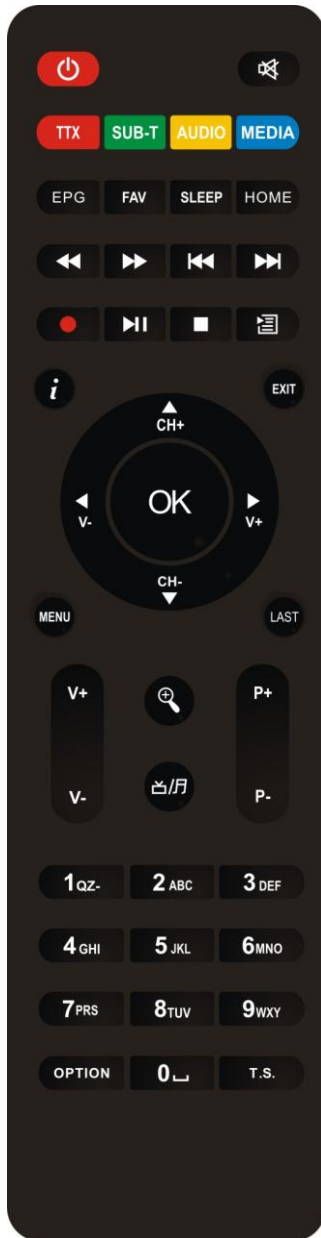
1. **STAND BY:** Shows if the receiver is in Standby mode.
2. **LOCK:** Indicates a sufficient signal level at the CABLE IN input.
3. **POWER:** It used to switch between the working mode and the standby mode.
4. **CH+/-:** Used to move the highlight bar or change channel up / down
5. **VOL+/-:** Used to move the highlight bar or change volume up/ down.










1.2 Rear Panel Description



- 1. LOOP OUT:** Cable output for cascading to others devices.
- 2. CABLE IN:** Cable input of the digital tuner.
- 3. USB:** To connect to an external USB Mass storage device (USB Stick or External HDD – Note:5V/500mA max.)
- 4. VIDEO:** CVBS video output for TV AV in.
- 5. AUDIO:** HiFi outputs for stereo set.
- 6. DC IN:** Mains input cable from external power supply unit.

1.3 Remote Control Description



POWER:	Switch on and switch to standby mode.
MUTE:	Switch audio on and off.
TTX:	Used to display the teletext data.
SUB-T:	Used to display the subtitle data.
AUDIO:	Open up the audio mode window.
MEDIA:	Open up the multimedia window.
EPG:	The EPG supplies information such as channel listings, program descriptions, and starting/ending times for all programs.
FAV:	Will display the favourite channel list.
SLEEP:	Set the sleep time.
HOME:	Open the main menu.
 :	Fast rewind / Fast forward.
 :	Previous / Next.
 :	Record.
 :	Play / Pause & Time shift.
 :	Stop.
 :	Show the scanned channels list.
 INFO:	Shows channel information with signal bar.
EXIT:	Use this key return to the viewing mode from any menu function.
CH+/-▲/▼:	Used to move the highlight bar or change channel up / down.
V+/-◀/▶:	Used to move the highlight bar or change volume up / down.
OK:	Confirms selections or opens channel list.
MENU:	Used to display the main menu and exit from submenu to main menu.
LAST:	Toggle between actual and last selected channel.
V+V-:	Adjusts volume or controls the cursor in menus.
 ZOOM:	Allow you to magnify a certain area on the images.
 TV/RADIO:	Switch between TV and Radio channels.
P+/P-:	Page up/ Page down.
Numeric(0-9):	Enters a TV/radio channel number or menu option number.
OPTION:	Switch to aspect ratio mode.
T.S.:	Activates timer shift in TV mode.

2. Basic Operations

2.1 Switch On Machine

Plug in the external Power Supply and switch the box on.

When the machine is first used it will automatically start to search all channel and you can start to watch the TV programs after the search completed.



? Frequently Asked Question

Q The Box is switched on and shows a channel number in the STB display, but the TV screen shows nothing:

A: Make sure the TV set has been set to the correct video input mode.

Q The Box is switched on and shows a channel number in the STB display, but the TV screen shows “No Signal”.

A: The signal of current TV channel is too weak or you Cable Connection is not proper. You may try to change to other channels. Please also three times “i-button” on your remote control to check Signal Intensity and Quality. If the problems still exist, please consult your local dealer or installer for technical service.

2.2 STANDBY

Press [Power] button to switch from TV/Radio mode to standby mode

In standby mode press [power] button again to switch on the STB. The last active channel will be seen. If you want to switch off mains, please unplug the external power supply.

2.3 MUTE

Press the [Mute] button to mute the sound. On the screen an icon will be displayed to indicate the same. Press the [Mute] button to unmute.

2.4 TTX

Press [TTX] button in TV mode to open the teletext page. Teletext is subject to the channel. This service is depending on the support of the channel provider. If the channel provides TXT Data, the info banner will display "TXT", If the channel does not support teletext information, it will show "No Teletext Data" on the screen.

2.5 SUB-T

In "Subtitle Display" menu. Subtitle: Press [◀/▶] to select "standard" or "Off". Press [◀/▶] to select languages. If the current channel has subtitle information, it will be displayed if this function is "On". If this function is "Off" subtitles won't be displayed.

2.6 AUDIO

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

2.7 Channel Number (0-9)

In TV mode you can enter the channel number directly with your remote control unit

2.8 LAST

The [LAST] button allows you to toggle the back and forth between former and current channel.

2.9 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.

2.10 INFO

In TV mode, press [Info] button once, will show channel number being received, the channel name, current and next program and the current date and time. Press the button twice you will see the extended description from the current program.

2.11 CH+/- ▲/▼

In TV/Radio mode press [CH▲/CH▼] to change channel and you can use them to navigate in the main menu.

2.12 VOL+/- ◀/▶

In TV/Radio mode, press [VOL◀/VOL▶] to adjust volume and you can use them to navigate in the main menu.

2.13 OK

In TV mode press [OK] button to open the Channel List. Press [CH▲/▼] to switch channel and confirm [OK].

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 ZOOM

The [Zoom] button allows you to magnify a certain area of the TV Screen.

Press [Zoom] as many times as required and the area will enlarge as x1, x2, x4, x6, x8, x12, x16.

In “x2 ~ x16” image, using [▲/▼ / ◀/▶] keys to move the image centre area you want to see.

In zoom mode, press [Exit] to close the window.

2.17 EPG

The machine supports Electronic Program Guides (EPG) to give you information about the actual programs of certain channels like event name, subtitle, description, start and finish time. This feature is depending on the service of the channel provider.



Press [EPG] to open the EPG window.

You can move the highlighted channel with [▲/▼] and preview the highlighted program in the preview window with [◀/▶] and display the event's detailed description.

Press the [OK] button in the EPG menu to display the detailed information of the actual event in the selected channel.

Press the green button in the EPG menu to program a timer with the actual events data.

o close the EPG menu press [EXIT / MENU].

2.18 SUB

In "Subtitle Language" menu press [▲/▼] to select the offered languages for subtitle or "Off". If the current channel has subtitle information, it will be displayed. If is "Off" is chooses subtitles won't be displayed.

2.19 REC ●

In TV mode, press [●] button you will be asked to start record.

2.20 FAV

In TV mode press the [FAV] button to display the Favourite Group window.

In the Favorite Group window you can select your favorite channel list. To navigate use [CH▲/CH▼] and confirm it with [OK]. Press [Exit] to close the Favourite Group window.

? Frequently Asked Question

Q: Why the screen displays "No Favorite Channel" after pressing the [Favorite] button?

A: No channels have been assigned to a Favorite Group yet. You can do this in the channel menu.

2.21 REW/ FFW ◀◀/▶▶

When you play a Media File from Media Player, press [◀◀] button to back the program fast and press [▶▶] for fast forward the program. Selection: 2x, 4x, 8x, 16x, 24x speed.

2.22 PLAY/PAUSE ►||

When you play a Media File from the Media Player, press [►||] will stop the program, press [►||] again will play the program continually.

The **Timeshift** function allows you to interrupt a program in progress and continue viewing it at a later time. The receiver records the program on the USB storage device. The current screen will be paused, enabling you continue watching from this point onwards. This menu item must be enabled for you to use this function.

Press the [►||] button once in normal mode and you will see a window and timeshift already started, the screen will be frozen now.

When you want to continue viewing the program, press the [►||] button. You will now see the program starting from the point at which you started timeshift and press [■] stop button to stop the timeshift function, it will return to the current status.

2.23 STOP ■

When you play a recorded program, press [■] button will stop the recorded channel playing and go back to the Record Management menu. When you are recording a program, press [■] button you will be asked: "Do you want to stop record?" Chose "Yes" to stop the recording.

3. Edit Channel

Press [MENU] and select "Edit Channel" (TV symbol).

1. Press [▲/▼] to select the wanted menu among: TV Channel List, Radio Channel List or Delete All
2. Press [OK] to enter the selected item.
3. Press [▲/▼] to select the channel item.
4. Press [OK] to enter the selected item.



3.1 TV Channel List

If you enter the channel list menu a



window like the one beside will open.

1. You can move the highlighted channel with [▲/▼] and press [OK] to preview the highlighted program in the preview window.
2. Press [◀/▶] to switch between the program groups.
3. Press [Menu] or [Exit] buttons to enter TV playing mode.
4. The color buttons offer further functions to manage the channel list.

3.1.1 Favorite

1. Press [FAV] to open the favorite window.
2. You can select between the favorite groups with [▲/▼]. Press [OK] to assign the channel which you selected to the marked favorite group.
3. The channels of favorite groups are indicated with a favorite icon behind the name.



3.1.2 Lock

Pressing the red button in the TV channel list, you can lock the channel you chosen; later when you switch to the channel it need enter the password before you watch.

3.1.3 Skip

Pressing the green button in the TV channel list, you can skip the channel you chosen, then that channel will not show up by press [▲/▼], you have to press the channel number.

3.1.4 Move

Pressing the yellow button in the TV channel list, you can choose between moves the actual channel and swap the actual channel to the desired position, press [OK] to confirm it.



3.1.5 Edit

3.1.5.1 Sort

In “Edit Channel” menu press red key to open the sort window. Press [▲/▼] to select and [OK] to confirm your choice.

The ways of sorting are:

- ◆ Name (A-Z): Sorting in Alphabetical order, ignoring “\$” symbol.
- ◆ Name (Z-A): Sorting in Alphabetical order, ignoring “\$” symbol.
- ◆ Free/Scramble: Sort channel by free and scrambled sequence. Free channels will be listed first and scrambled channels behind in the channel list.
- ◆ Lock: Unlocked channels are listed first end locked channels at the end.



3.1.5.1 Edit

After pressing the green button you can edit the channel name.

3.1.5.3 Delete

In “Edit Channel” menu press blue button will open another window where you can choose between delete one channel and delete all channels.

Press [OK] button to mark a channel for deleting. Marked channel will be deleted after you confirm to save the changes when you leave this menu.

3.2 Radio Channel List

Basically the operation of “Radio Channel List” is same as “TV Channel List”, except that in the small channel window the radio Logo will be displayed.

3.3 Delete All

To delete all channels:

1. Select “OK” to delete all channels or “Cancel” to cancel the operation and confirm with [OK].
2. In step 1 and step 2, pressing [Menu] will exit the function directly without saving.

? Frequently Asked Question

Q: IF I incautiously delete all channels, what should I do?

A: there are two ways to restore:

- To research all channels in the “Installation” menu.
- Use “Factory Default” function to restore all channels in the “Tools” menu.



4. Installation

When you enter to “Installation” menu and choose “Installation”, there will display the screen like beside:

1. Press [▼/▲] key to select menu pages among Quick Scan and Auto Scan.
2. Press [▼/▲] key to select menu items among each items.
3. Press [OK] key to enter the selected item.

4.1 Quick Search

When you enter to “Quick Search” menu, there will display the screen like beside:

1. You have to set the parameters of “Frequency”, therefore use the number keys of the RCU.
2. You have to set the parameters of “Symbol Rate”, therefore use the number keys of the RCU.
3. San Mode: Press [◀/▶] to switch this function “16QAM”, “32QAM”, “64QAM”, “128QAM”, “256QAM”.
4. Network Search: Press [◀/▶] to choose “Yes” or “No”.
5. Moving the highlight to “Search” item and press [OK] key to start scanning.
6. In the “Quick Scan” menu, press [Exit] key to draw back from the scanning.



4.2 Auto Search

When you enter to “Auto Search” menu, there will display the screen like right:

1. You have to set the parameters of “First Frequency”, therefore use the number keys of the RCU.
2. You have to set the parameters of “Second Frequency”, therefore use the number keys of the RCU.
3. You have to set the parameters of “Symbol Rate”, therefore use the number keys of the RCU.
4. San QAM: Press [◀/▶] to switch this function “16QAM”, “32QAM”, “64QAM”, “128QAM”, “256QAM”.
5. Network Search: Press [◀/▶] to choose “Yes” or “No”.
6. Moving the highlight to “Search” item and press [OK] key to start scanning.
7. In the “Auto Search” menu, press [Exit] key to draw back from the scanning.

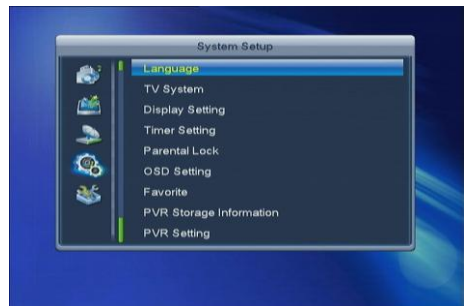


5. System Setup

When you open the “System Setup” menu a window like the one beside will be opened.

In “System Setup” menu:

1. Press [▲/▼] to select menu items among Language, TV System, Timer Setting, Parental Lock, OSD Setting, PVR Storage Information, PVR Setting or Other.
2. Press [OK] to open the selected item.



5.1 Language

After selecting the “Language” menu you will see a window like beside:

1. Menu Language: Press [◀/▶] to select languages. The selection of language include: English.
2. First Audio: Some channels offer more than one audio language. This function allows you to set the preferred audio language for those channels. If a channel offers the same audio language as the “First Audio” you set the system will play this audio language as default. If the channel does not offer this audio language then the system will compare the offered languages with the second audio language. The selections of audio language include: English.
3. Second Audio: If the channel has no audio language that corresponds with “First Audio” but with “Second Audio” the system will play the second audio language as default. If no audio language corresponds with the “Second Audio” then the default language of the current channel will be played instead. The selections of audio language include: English.
4. Press [MENU/EXIT] to return back from “Language” menu.



5.2 TV System

When you enter the “TV System” menu you will see the screen like beside:

1. In Video Resolution you can switch between 480i and 576i.
2. Press [◀/▶] to switch the desired mode.
3. Aspect Mode is used to switch the screen aspect ratio mode. You can select the needed mode from Auto / 4:3 PS / 4:3 LB / 16:9 with [◀/▶].
4. Press [MENU/EXIT] to return to the previous menu.



5.3 Display Setting

1. You can press [◀/▶] to select Brightness
2. You can press [◀/▶] to select Contrast
3. You can press [◀/▶] to select Saturation



5.4 Timer Setting

Press [OK] to enter the “Timer” menu.

- ◆ Select between 8 timers.
- ◆ Timer Mode: Select between: Off, Once and Daily.
- ◆ Timer service: Select between wake up at certain TV Channels or record certain TV Channels
- ◆ Wakeup Channel: Press [OK] to enter the channel list, and select the channel you want to see with [▲/▼], press [OK] to confirm.
- ◆ Wakeup Date: Use number buttons to input your wakeup date.
- ◆ On Time: Use number buttons to input your wakeup time. If date and time are reached, then no matter if the system is in standby mode or in playing mode, it will automatically switch to the channel you set and start to play.
- ◆ Duration: Here you can set the time you want to see or play this channel. When the time is reached, whenever the system is in standby mode or playing a channel, the system will automatically switch to the channel you select and play the channel within the duration time you set. The minimum duration unit is one minute. After the duration time, the system will automatically switch to standby mode.
- ◆ Press [EXIT] to leave the “Timer Setting” menu.



5.5 Parental Lock

You can set a password for anyone who wishes to operate the “Installation” menu. You can also set the password to lock channels. Below you find how to set and change the password.

1. Press [OK] to open a dialogue box and input the password.
2. Menu Lock: If Menu Lock is set to “On” then you need to enter the password every time you want to open the menu. If set to “Off” then you can open the menu without entering the password first.
3. New Menu Password: Here you can change the existing password. You should do this after you set up the receiver the first time and every time when you think that your password is known by unauthorized persons. To change the password, enter the new password in the “New Password” item and repeat the same one in the “Confirm Password” item. If the passwords are not identically then you will see a warning message. If you entered the same new password in both fields then you will see the message “Saving Data, Please Wait...”. From now on you need to use the new password to open locked menus or locked channels.
4. Press [Exit] to leave the “Parental Lock” menu.



NOTE: The default password is 0000.

5.6 OSD Setting

When you select “OSD Setting” you will see a screen like beside:

1. OSD Timeout: This setting determines the duration the info window is displayed on the screen when you change channels or press [INFO]. Press [◀/▶] to set the time between 1 to 10 seconds.



2. OSD Transparency: With this parameter you can set the transparency of the menus. Press [◀/▶] to select the value between 10%, 20%, 30%, 40% and “Off” (means no transparency function).
3. Press [EXIT] button to leave the “OSD Setting” menu.

5.7 PVR Storage Information

You can review your USB Disk Information, Volume, Total Size, Free Size, Rec Size, TMS Size and File System.



5.8 PVR Setting

1. Timeshift: You can select with [◀/▶] between “OFF” and “ON” to activate or deactivate Timeshift function.
2. Jump: With [◀/▶] you can switch between 30 seconds and 30 minutes. The value controls the step of ◀◀/▶▶ operation in a recording.

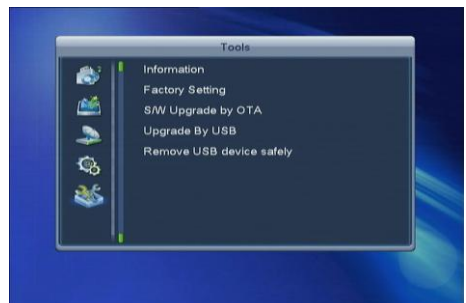
5.9 Other

1. Channel Play Type
Select between All, Free and Scrambled to decide which channels should be displayed.
2. Auto Standby
Choose between Off and On to activate or deactivate the automatic standby function after 3 hours if the machine will not be used.

6. Tools

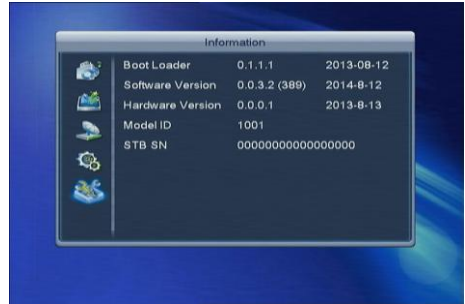
When you enter to “Tools” menu, you will see a screen like beside:

1. Press [▲/▼] to select the wanted item among Information, Factory Setting, S/W Upgrade by OTA, Upgrade by USB and Remove USB device safely.
2. Press [OK] to enter the selected item.



6.1 Information

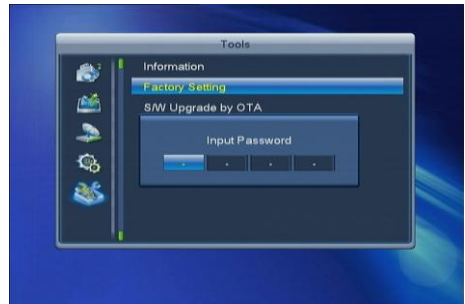
1. When you select the “Information” menu you will see current data about the machine.
2. Press [EXIT] button to leave the information display.



6.2 Factory Setting

When you choose “Factory Setting” :

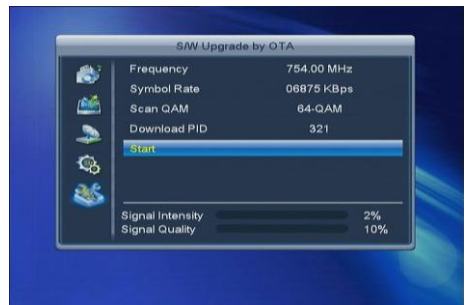
1. A dialogue box will occur where you need to enter the password.
2. After you input the correct password a warning message will be displayed.
3. If you select “Yes” then all changes you made will be reset to default values. Make sure you really want to do this!
4. Press [EXIT] in both steps will close the window without resetting the receiver.



6.3 Software Upgrade by OTA

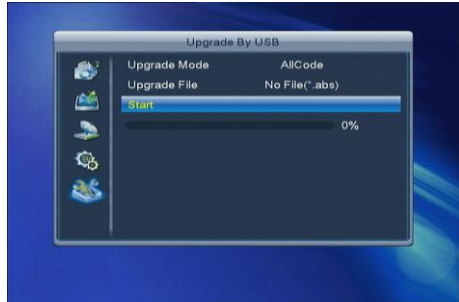
Here you can upgrade the receiver software by OTA (over the air). After select “OTA Upgrade” you can select “OTA”. Here you can set: Frequency, Symbol Rate, Scan QAM, Download PID. You should use the settings which are default.

Go to “Start” and confirm with [OK] to start the software update.



6.4 Upgrade by USB

This option allows updating the software of the receiver with a USB memory device. Connect a USB memory device with the new software version to the receiver and go to this menu point.



1. Upgrade Mode: the mode of the upgrade to be chosen, Press [◀/▶] to select AllCode, CAS and Ch.List & Setting.
2. "Upgrade File": Select with [◀/▶] the file which you want to use.
3. Start: Press [OK] to start upgrade.
4. Once the file has been loaded, it requires the conformity to end the upgrading process, writing into the receiver "Are you sure to burn flash?". Press [OK] to upgrade the receiver. In case during the reading of the file, it is corrupted or it would be a not appropriated for this model of receiver, an alert message would appear "Error reading the USB disk".
5. After pressing [OK] the receiver will write into the Flash memory, and it will reboot to end the upgrading process.

NOTE: The upgrade file is the binary file, *.bin. Only the files, which extend name is .bin, would be displayed. User need put the upgrade file under root of USB card.

6.5 Remove USB device safely

You can remove USB safely with this function.



7. Media Player

Insert a readable USB storage device into the USB port on the receiver.

When you enter to “Media Player” menu, you will see a screen like beside:

1. Press [▲/▼] to select PVR, Video, Music or Image.
2. Press [OK] to enter the selected item.



7.1 PVR

If you enter the PVR menu a window like the one beside will open.

You can move the highlighted record with [▲/▼] to preview it in the preview window. Press [OK] button to enter TV playing mode.



The color buttons offer further functions to manage:

1. Rename: Press [▲/▼] to select the wanted item. Press the red button to open the “Rename” window. Use the keys on your remote control unit to change the name of the recording.
2. Lock: Press the green button to place a lock icon behind the name of the highlighted record. Marked records will be locked and displayed only after password has been entered if you confirm to save the changes when you leave this menu.
3. Delete: Press yellow button to mark the selected recording with a cross. . Marked recording will be deleting after you leave this menu with [EXIT].

7.2 Video

In Video menu point you can move the highlighted record with [▲/▼] to preview it in the preview window. Press [OK] button to enter TV playing mode. If you select the blue button you will see further color buttons which offer different functions to manage:

1. **Rename:** Press [▲/▼] to select the wanted item. Press the red button to open the “Rename” window. Use the keys on your remote control unit to change the name of the recording.
2. **Copy:** Press the green button to copy the video to another disk. Press [◀/▶] to switch select copy path, press again the green button to add the video.
3. **Delete:** Press yellow button to mark the selected recording with a cross. Marked recording will be deleting after you leave this menu with [EXIT].
4. **+Folder:** Press blue button to create a new folder.



7.3 Music

If you select a MP3 file and press [OK] you will see a window like this:

Using [◀◀], [▶▶], [■], [▶▶▶] to manage the channel list.

Press [Exit] to return to the previous menu.

The color buttons offer also here further functions to manage. Additional

to the other menu points you can set here one (green button) or all (yellow button) files as favourites. When you select these files you can open it as Play List with red button. Inside of the Play List you can also edit the files with red (Move), green (Delete) and yellow (Delete All) buttons.



7.4 Image

The operation of group “Image” is same as “Music”.



Important notes for the use of external hard drives and USB Stick's

Your receiver has a USB 2.0 interface to plug any external storage media for data transfer such as an external hard drive or USB stick. This interface has a standard power output of 500mA. Please note that you will only connect external hard drives with a separate power supply. For hard drives without a separate power supply your receiver can not deliver a possible high inrush via USB to the hard drive.

If you want to transfer data (film / photo / music, etc.) with a USB stick start, please note when buying that you buy a USB flash drive with a high read transfer rate and high write transfer rate. These values should be 15-20 MB / sec. With these values, e.g. TV recording without the interference e.g. judder of the image possible.

Please note that we will assume no liability for the specifications of the manufacturer of the USB sticks and the external hard drive.

In storage capacity, please note details of the respective manufacturers. Please note the following guidelines:

On a 2GB USB stick you can save about 35 hours of music, or about 500 songs or 2400 photos, at 3 Megapixels / or 1 hour movies in MPEG-2 format / and 1 hour and 30 minute films in MPEG-4 format.

Please note that these targets dependent to data size which should be saved. Broadcast TV programs can differ significantly from the amount of data. This depends on the quality of each broadcast TV station.

8. Troubleshooting

There may be various reasons behind receiver problems. Check the receiver according to the procedures described below. If you can't solve your problem even after following the troubleshooting procedures, please contact the dealer. Do not open the receiver cover, it may cause a dangerous situation.

1) The front panel doesn't display any message

The power cord is not plugged in.

Check that the power cable is plugged in to the wall outlet.

2) No picture or sound

--Wrong connection of the audio / video output of the receiver to TV

Connect the audio / video output of the receiver to TV correctly.

--Audio muting

Press the MUTE button

--TV power

Turn TV on

3) No picture

--Incorrect values of some tuner parameters

Set the values of tuner parameters correctly. Refer to the installation menu

4) The remote controller does not operate

--The batteries of the remote controller are not inserted or exhausted

Check whether the batteries are inserted correctly in your remote controller.

Check and replace the batteries of the remote controller.

9. Technical Specification

VIDEO

Decoding	MPEG-4 ISO/IEC 13818 (MP@ML)
Output	PAL/NTSC
Aspect ratio	4:3, 16:9, Auto
Active pixel	SD: 720x480 @ 30fps; 720x576 @ 25fps
Output connector	CVBS (RCA)

AUDIO

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

INPUT

Standard	MPEG4 SD
Input connector	F-Connector
Frequency	VHF-UHF
Constellation QAM	QAM16, 32, 64, 128, 256
Frequency band	47-862 MHz
Input impedance	75 ohm
Channel bandwidth	7, 8 MHz
USB 2.0 (optional)	USB-A (5V/500mA)

MISCELLANEOUS

External Supply voltage	12V/1.0A, 90~270VAC, 50/60Hz
Power consumption	10 watts
Operation Temperature	0° - 50°C
Dimension (W * D * H)	185 x 138 x 38.5mm
Weight	About 1.0 Kg