

Lenco

STB-100

Set top box with HD DVB-T

User's Manual



For information and support, www.lenco.eu

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SAFETY PRECAUTION

CAUTION:



CAUTION
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.

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

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

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

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

WARNING: The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the unit. If you are not sure of the type of power supply (for example, 120 or 230 V) to your home, consult your local dealer or local power company.

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

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

Note: This product installs diodes. 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 on the lens In the following conditions:

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

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

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

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

Packing list

PART	QUANTITY
Set top Box	1
Adapter	1
Remote Control	1
Remote Control Battery	2
User Manual	1

Preface

Congratulations on your purchase of the set top box, Before operation, please read this manual thoroughly and keep it well for future reference. This manual will help you keep abreast with many of the exciting features .

This manual contains important safe measurements and correct operational information, so please read all the information carefully before use in order to avoid any damage,

1. Main Features

It's a set top box with multi-functional full HD HDD player, with the features of volume delicate and easy to use. It's a good helper for your entertainment.

DVB-T TV Receiver

Supports Digital Video Broadcasting Terrestrial(DVB-T) reception, Electronic Program Guide(EPG)

Media-player

Video format: play multifarious video format files, such as: MPEG1,MPEG2 (MP@ML) , MPEG4 ASP@ L5 HD,(DIVX3.0-6.0)HD, H.264 HD 1080P

Audio format: MPEG-1, MPEG2 (LayerI & II),AC-3, E-AC-3,AAC,HE-AAC LEVEL2&4, MP3

Picture format: support JPEG, BMP, PNG, TIFF

PVR

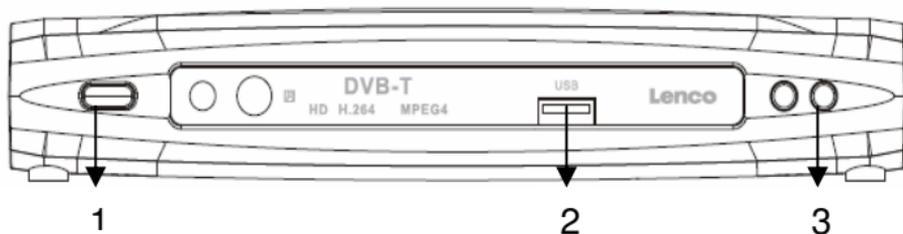
Support three recording mode:

EPG Reservation Recording

Manual Reservation Recording

One Button Recording

FRONT PANEL

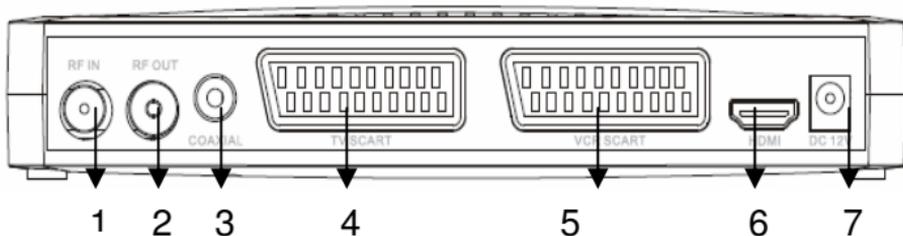


1. POWER ON/OFF

2. USB JACK

3. Channel DOWN/CHANNEL UP

REAR PANEL



1. RF SIGNAL INPUT

2. RF SIGNAL OUTPUT

3. COAXIAL JACK

4. TV/ SCART

5. VCR SCART

6. HDMI

7. DC JACK

How to connect

Please connect TV set and set top box through HDMI cable or Scart cable , in our rear panel there are 2 Scart connectors and 1 HDMI connector .

Please insert one side of the power adapter into the to DC Jack and the other side into the AC outlet.

2.Remote Controller



button	function	button	function
power	turn on/off the device	fav.	my favorite file
mute	mute on/off	INFO	display info information
number	0-9 channel number	picture	2X8
menu	enter the main menu	setup	setting information at TV menu
EXIT	exit function	AUDIO	Press to change audio, and choose EQ mode
	press to previous page	EPG	Press to enter the Electronic Program Guide
	press to back page	SUB-T	Press to set subtitle options
CH+	move the cursor/Channel+	TTX	Press to enter TTX interface
CH-	move the cursor/Channel-	play/pause	press to play /pause the file
VOL-	move the cursor/volume -		recording
VOL+	move the cursor/volume+		Press to stop recording
OK	confirm	music	press to wake up back music
FF	Press to fast forward the current playback	go to	Press to select the time point
FR	Press to fast rewind the current playback	ZOOM	Press to zoom in/out the image (photo or video)
COLOR KEY	FUNCTION BUTTON	Repeat	Repeat playing music, video

3. Welcome Page

When turning the power on for the first time, the welcome page will be shown as below:



4. Installation Guide

- (1) Press [CH+/CH-] key to move highlight.
- (2) Press [VOL+/VOL-] key to select the item
- (3) Move highlight to [Channel Search] and press [OK] key to begin the auto scan.
- (4) Press [Exit] key to exit menu.



5. Program

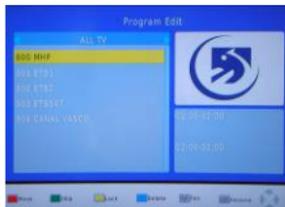
When pressing the [Menu] key to enter the main menu, which shows as below:



- (1) Press [VOL-/VOL+] key to select menu pages among Program, Picture, Channel Search, Time, Option, System, and USB.
- (2) Press [CH-] or [OK] key to enter the "Program Edit". If Menu Lock is "On", a dialogue inquires the password, which is "000000" for default.
- (3) Press [Exit] key to go back to main menu.

5.1 Program Edit

When entering the "ALL TV" menu, which shows as below..



- (1) Press [CH+/CH-] key to move the highlight
- (2) Press [R] [P] key to execute the Page Up/Page down function.

(3) Press the color key to execute the corresponding functions in “ALL TV”.

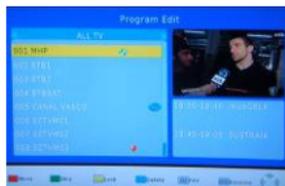
5.1.1 Move

(1) Press [CH+/CH-] key to move the highlight and press [RED] key to make a mark.

There will be a “moving mark” in the right side of the selected channel as above.

(2) Press [CH+/CH-] key to move the selected channel to the position that you want to place.

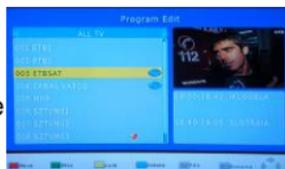
And press [RED] key to confirm your decision.



5.1.2 Skip

(1) Press [CH+/CH-] key to move the highlight and Press [Green] key to make a “skip mark” in the right side of the highlighted channel.

(2) After saving and exiting menu, the channel will be skipped while user change channel in the full screen



5.1.3 Lock

(1) Press [CH+/CH-] key to move the highlight and press [YELLOW] key to make a “lock mark” can be seen on the right side of the highlighted channel.

(2) After saving and exiting the menu, the password

dialog will be required while you want to watch the locked channel.



5.1.4 Delete

Press [CH+/CH-] key to move the highlight and press [BLUE] key to make a delete dialog then press [OK] key to delete the channel or [exit] the key to cancel deleting. After save and exit “ALL TV” menu, the marked channel will be deleted.



5.1.5 Favorite

(1) Press [CH+/CH-] key to move the highlight and press the [FAV] key to open the “Favorite Type” window shown “Disable, Movie, News, Sport and Music”.

(2) Press [CH+/CH-] key to move the highlight among the 4 favorite groups then press [OK] to



- make a favorite mark in the left side of the selected Favorite group.
- (3) Move the highlight to [Disable] to press [OK] key to cancel the existing favorite mark.
- (4) After marking, pressing [Exit] key to go back to "ALL TV"; there will be a favorite mark beside the marked channel.

5.1.6 Rename

In "ALL TV" menu, press [CH-/CH+] key to move the highlight and press [GO TO] key to open the "Rename" window.



then use the numeric key on the RC to set the TV name.

5.2 EPG

- (1) Pressing [CH+/CH-] key to move highlight and press [OK] key to enter into "Program Guide" and show EPG information.
- (2) Press [Exit] to exit "Program Guide" menu.



5.3 Sort

- (1) Press [CH+/CH-] key to move cursor to "Sort" then press [VOL-/VOL+] key to change three kinds of sorting type, "By LCN, By service name, By ONID"
- (2) press [OK] key to confirm your selection.

5.4 LCN

LCN: To toggle the LCN mode On/Off

6. Picture

Press [MENU] key to display MAIN MENU and

Press [VOL-/VOL+] key to select “ Picture “program

Aspect Ratio

Press [VOL-/VOL+] key to change option item and press [OK] key to confirm the selection.

Resolution

Press [VOL-/VOL+] key to change option item and press [OK] key to confirm the selection.

TV Format

Press [VOL-/VOL+] key to change option item and press [OK] key to confirm the selection.

Video Output

Press [VOL-/VOL+] key to change option item and press [OK] key to confirm the selection.



7. Channel Search

- (1) Press [MENU] key to display MAIN MENU
- (2) Press [VOL-/VOL+] key to select “ Channel Search “program

(3) Press [Exit] key to go back to main menu.



7.1 Auto Search

- (1) Press [CH+/CH-] key to option “Auto Search”
- (2) Press [OK] enter to “Auto Search” menu and start scanning
- (3) In the “Auto Search” menu, press [Exit] key to draw back from the scanning



7.2 Manual Search

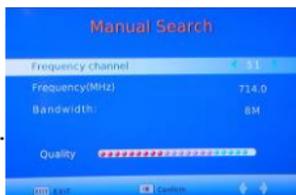
- (1) Press [CH+/CH-] key to option Manual Search”
- (2) Press [OK] enter to “Manual Search” menu and show as below:
- (3) Press [VOL-/VOL+] key to option for which country
- (4) press [VOL-/VOL+] key to change



“Antenna Power” ON/OFF

(a) If you can scan channel by adjusting “Frequency Channel” number and press [OK] key to start scanning

(b) If you scan channel by Frequency(MHz), “Frequency” and “Bandwidth” are available to adjust. When you complete your modification, and press [OK] key, then it will begin to scan.



(5) Press [Exit] key to exit the scanning.

8. Time

(1) Press [MENU] key to display MAIN MENU

(2) Press [VOL-/VOL+] key to select “Time” program

(3) Press [Exit] key to exit the TIME

Time Offset

Press [VOL-/VOL+] key to change “AUTO / MANUAL” type of time offset.

Country Region

Press [VOL-/VOL+] key to change different country region



Time Zone

When the time offset is “manual”, you can change “GMT+0” value.

Power down after

Press [VOL-/VOL+] key to setup when to Power down automatically

9. Option

(1) Press [MENU] key to display MAIN MENU

(2) Press [VOL-/VOL+] key to select “Option”



OSD Language

Press [VOL-/VOL+] key to choose the language

Subtitle Language

Press [VOL-/VOL+] key to choose TV subtitle Language

Audio Language

Press [VOL-/VOL+] key to choose audio language

Digital Audio

Press [VOL-/VOL+] key to choose digital audio output
PCM/RAM

(3) Press [Exit] key to exit the Opito



10. System

(1) Press [MENU] key to display MAIN MENU

(2) Press [VOL-/VOL+] key to select "System"

Parental Guidance

Press [CH-/CH+] key to move cursor and Press [OK] key to input Password "000000" set the program parental controlling level



Set password

Press [CH-/CH+] key to move cursor and Press [OK] key to enter the password setting sub menu.

Use the numeric key on the RC to set the new password.

Restore Factory Default

Press [OK] key to enter the sub menu and

Press [OK] key to confirm to restore the default setting the enter password: "888888" or [EXIT] key to cancel restore

Information

Press [OK] key to show the system information
(model NO. , SW Version ,HW Version)

11. USB

USB menu will be disabled when the USB device is unplugged. Media Player List will not be saved after unplugging USB and/or going to standby and power off.

NOTE: The USB memory stick should be plug in the unit directly. USB extension cable should not be used to avoid failing of data transferring and interference caused.



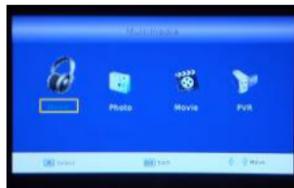
- (1) Press [MENU] key to display MAIN MENU
- (2) Press [VOL-/VOL+] key to select "USB" program

11.1 Multimedia

- (1) Press [CH-/CH+] key to enter the "Multimedia"
- (2) Press [VOL-/VOL+] key to select "Music, Photo, Movie, PVR" program

Music

- (1) Press [OK] key to enter "Music"
 - (2) Press [CH-/CH+] key to select the music and Press [OK] key to play the music.
- Press [EXIT] key to return up Folder



Photo

- (1) Press [OK] key to enter "Photo"
 - (2) Press [CH-/CH+] key to select the Photo and Press [OK] key to show the picture .
- Press [EXIT] key to return up Folder

Movie

- (1) Press [OK] key to enter "Movie"
 - (2) Press [CH-/CH+] key to select the movie and Press [OK] key to play the movie.
- Press [EXIT] key to return up Folder

PVR

- (1) Press [OK] key to enter "PVR"
- (2) Press [CH-/CH+] key to select the PVR file and Press [OK] key to play the PVR .

Press [EXIT] key to return up Floder

11.2 Photo configure

Press [CH-/CH+] key to move the cursor and

Press [OK] enter the "Photo configure"

Press [CH-/CH+] and [VOL-/VOL+] key to adjust optional item of "Slide Time", "Slide Mode", "Aspect Ratio"



11.3 Movie configure

Press [CH-/CH+] key to move the cursor and

Press [OK] enter the "Movie configure"

Press [CH-/CH+] and [VOL-/VOL+] key to adjust optional item of "Aspect Ratio", "Subtitle Specific", "Subtitle BackGround", "Subtitle FontColor"



11.4 PVR configure

Press [CH-/CH+] key to move the cursor and

Press [OK] key to enter the "PVR Configure"



Record Device

Press [CH-/CH+] key to move the cursor and

Press [OK] key to enter the "Record Device" then

Press [VOL-/VOL+] key to choose the DISK

Press [EXIT] key to return sub menu



Format

Press [CH-/CH+] key to move the cursor and

Press [OK] key to enter the "Format" then

Press [VOL-/VOL+] key to choose the Format

Press [Exit] key to return sub menu.

12. Upgrade by USB

This function is only valid when the USB device has been plugged-in and attached at the receiver box.

there are two methods to update firmware, as following:
Select to update the firmware via a USB stick

- 1) Copy the new firmware to the root directory of a USB stick, and connect it to the USB HOST port of the player then press ENTER to confirm
- 2) Input password "666666" on main menu, system can update firmware automatically
- 3) Please restart STB after software upgrade complete 100%



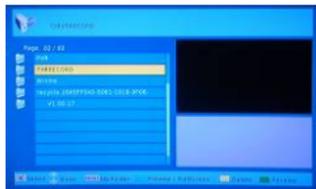
13. REC

Press [] key to start recording
press [] key to stop recording

14. PVR RECORD

14.1 FULL SCREEN

- (1) Press [CH-/CH+] key to choose " *.pvr" to play.
- (2) press [BLUE] key to make it full screen.



14.2 Delete

- (1) Press [YELLOW] key to make a delete with highlight program.
- (2)press [OK] key to delete the program .

14.3 Rename

- (1) Press [GREEN] key to rename a highlight program.
- (2)press [OK] key to save the program .

15.Specifications

Multimedia playback	Playback in different video and audio format
	USB2.0 host
Connector	HDMI1.2 and Scart connector
PVR	DTV direct recording and schedule recording
HD DTV Specification	
Input Frequency Range	VHF:174~230MHz; UHF:470~862MHz;
Input Impedance	75Ω
Active Ant Power	5VDC @ 400mA MAX,Overload Protection
Input Signal Level	-.75~-20dBm
Waveform	COFDM (Code Orthogonal Frequency Division Multiplexing)
Bandwidth	6、7、8MHz
Demodulation	QPSK, 16QAM, 64QAM
FFT SIZE	2K、8K
Code Rate	1/2、2/3、3/4、5/6、7/8
Guard Intervals	1/4、1/8、1/16、1/32
Video Bandwidth	5.5MHz(-3dB)
Video Impedance	75Ω
Video Voltage Level	1.0 Vp-p
Audio Freq. Range	20~20KHz
Audio Impedance	600Ω
Audio Voltage Level	2V rms(5.6Vp-p)
Input Voltage	C 110~240V, 50Hz
Consumption	< 12 W / ≤ 1 W Standby
Temperature	0□ to +42□
Humidity	<95%

16. Troubleshooting

If you encounter problems when using this unit, check the following points before requesting service.

Problem	Solution
No Power	Please: Confirm that you have an appropriate power source Check if all connections between wall outlet and power supply, and power supply and the player are correct. Switch power button on front of the player to turn on the power
Buttons do not work	To completely reset the player, unplug the AC cord from the AC outlet for 5-10 seconds.
The player does not respond to the remote control	Point the remote control towards the remote receiver. Make sure the signal from the remote control to the receiver on the player is not blocked by solid objects. Reduce the distance to the media player. Replace the batteries in the remote control. Re-insert the batteries with their polarities (+/- signs) as indicated.
No Picture	Check if the TV is switched on. Select the appropriate video input on your TV
No sound or distorted sound	Adjust the volume. Check the audio cables are connected correctly. Select the audio output that is supported by your TV.



If at any time in the future you should need to dispose of this product please note that: Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice. (Waste Electrical and Electronic Equipment Directive)