

CT-STB-DVR User Manual



WARNING: Cancer and Reproductive Harm
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PACKAGE CONTENTS

- One CT-STB-DVR Home Digital TV Converter Box With DVR
- One Remote Control
- A/V Cable
- AAA Batteries
- 5V 1.5A Power Adapter
- User manual

PACKAGE DESCRIPTION

Immerse yourself in an elevated entertainment experience with the CableTronix cutting-edge digital TV set-top box. This advanced device effortlessly converts over-the-air and unscrambled cable TV channels to seamlessly integrate with your television. Enjoy the convenience of a favorite channel function and inclusive accessibility with closed captioning (CC) for the hearing impaired. Never miss a moment of your favorite shows, thanks to the built-in DVR that offers convenient recording and playback capabilities. With multiple connectivity options, including HDMI, RCA, and Coax Cable outputs, connecting to your TV is a breeze. Expand your entertainment horizons further with the media player feature, allowing you to enjoy videos, music, and photos via the USB port. Stay informed with the digital clock function, adding a practical touch to your viewing space. The set-top-box comes with all essentials for a seamless setup and operation, featuring a remote control with batteries, power adapter and user manual. Elevate your television experience with our digital TV set-top box, where innovation meets entertainment.

FCC NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rule. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. This is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off or on, the user is encouraged to try to correct the interference by one or more of the follow measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

IMPORTANT SAFETY INSTRUCTIONS



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (Servicing) instructions in the literature accompany the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK. DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DO NOT OPEN THE COVER, REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

1. Read, follow and keep these instructions.
2. Do not use this apparatus near water.
3. Clean only with a damp cloth. Please unplug power prior to cleaning.
4. Do not block any of the ventilation openings. Install in accordance with the manufacturer’s instructions.
5. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
6. Protect the power cord from being walked on or pinched particularly at the plug, receptacles, and the point where they exit from the apparatus.
7. Only use attachments/accessories included within this package.
8. Unplug this apparatus during lightning storms or when unused for long periods of time.
9. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way; such as when the power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

A Class II APPARATUS shall be permanently marked with the words “DOUBLE INSULATION” or “Double Insulated” and “When servicing use only identical replacement parts.”

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.



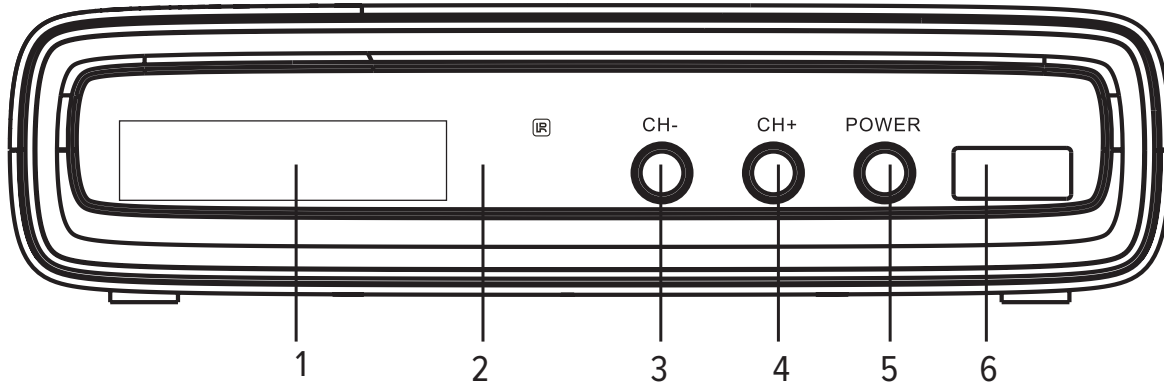
PRECAUTIONS

Please read these precautions before operating this unit.

1. Place the equipment on a hard, level surface. Leave a 4 inch minimum of clearance on all vented sides of the set top box to permit the airflow required for proper ventilation. Restricting airflow can damage the unit or cause a fire.
2. Do not stack equipment or place equipment so close together that it is subject to re-circulated or preheated air.
3. Ensure that nothing rests on your equipment's cables and that the cables are not located where they can be stepped on or tripped over.
4. Ensure that all cables are connected to the appropriate connectors. Some connectors have a similar appearance and may be easily confused (for example, do not plug a coaxial cable connector into a network connector).
5. Do not place your device on a soft fabric surface such as a bed, sofa, carpet, or a rug.
6. Keep your device away from radiators and heat sources.
7. Keep your equipment away from extremely hot or cold temperatures to ensure that it is used within the specified operating range.
8. Do not push any objects into the air vents or openings of your equipment. Doing so can cause fire or electric shock by shorting out interior components.
9. Do not use your equipment in a wet environment, for example, near a bathtub, sink, or swimming pool or in a wet basement.
10. Do not use AC powered equipment during an electrical storm. Battery powered devices may be used if all cables have been disconnected.
11. Do not spill food or liquids on your equipment.
12. Before you clean your equipment, disconnect it from the electrical outlet. Clean your device with a soft cloth dampened with water. Do not use liquids or aerosol cleaners, which may contain flammable substances.

OVERVIEW OF THE EQUIPMENT

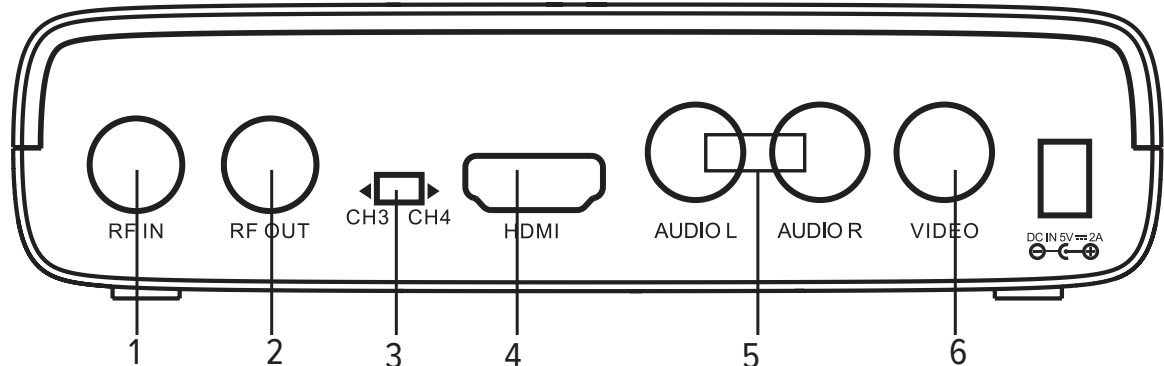
FRONT PANELS



FRONT PANEL

1	LED Display Window
2	Remote Control Signal Sensor
3	Change Channel DOWN Button
4	Change Channel UP Button
5	Power ON/OFF Button
6	USB Jack

REAR PANELS



REAR PANEL

1	RF IN	Connect to Off Air Antenna or Cable TV Source
2	RF OUT	CH 3/4 NTSC RF output
3	CH3/CH4	CH3/4 Switch Button
4	HDMI	HDMI Output
5	L-AUDIO-R	Connects these terminals to analog audio inputs or a TV set. Or connect these terminals to the LR inputs of a separate audio component.
6	VIDEO	If your TV or monitor has composite Audio/Video cable, connect this jack to the AV input jack on your TV or monitor using an Audio/Video cable

OVERVIEW OF THE EQUIPMENT

REMOTE CONTROL UNIT



THE REMOTE KEY LIST

STANDBY	Press to turn on or standby
HDMI	Adjust resolution
MUTE	Press to mute the sound of TV audio, press again will restore the sound
0-9	Press to enter the required numbers in the input box or select a channel to watch
LIST	Press to display all TV channels or all Radio channels
REC	Press to start recording
STOP	Press to stop playback or recording
MENU	Press to display the Main Menu on the screen
EXIT	Press to return to the previous menu
▲/▼/CH+/-	Move cursor up/down; Channel + / -
◀/▶/VOL+/-	Move cursor left/right Volume+/-
OK	Confirm
⏪ / ⏩	Prev / Next
⏮ / ⏭	Rev/Fwd
FAV	Press to display the favorite channel's list for setting
EPG	Electronic Program Guide
CC	Press to turn on/off closed captioning
INFO	Show/Hide service info: Press once a Service Info Bar will appear Press again to show Detail Info Press again to show Program Info
PLAY	Press to resume playback
PAUSE	Press to pause playback or recording
RECALL	Press to switch between current & last TV channel
HOLD	This is a Control Key under USB/Video and PVR/DVR mode
REPEAT	Press this button to repeat the current options
USB	Press to view content of connected external HOD or Flash drive
TIMER	Press to go to Programmed Time Recording setup
AUDIO	Switch Audio channel

OVERVIEW OF THE EQUIPMENT

INFO KEY

Press “INFO” key to display the Information banner while viewing TV programs. Information banner:



AUDIO KEY

Some programs may have multilingual audio language and this audio broadcast may be on a different audio mode such as Stereo, Left or Right. All the available audio languages will be displayed on the audio track window when you press the L/R key. The screenshot illustrates this below. If there is no audio output after you have selected the audio language, it indicates that there is no audio on the current audio mode, so you have to select the previous audio mode.



CC KEY

Certain programs have multilingual subtitle information. All available subtitle languages will be displayed in the subtitle information window when you press the CC key.

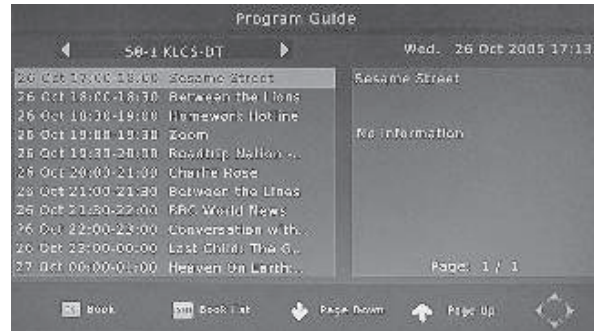
⏪ & ⏩ (PREV/NEXT) KEYS AND ⏮ & ⏭ (REV/FWD) KEYS

The PREV/NEXT keys and REV/FWD keys can be used during playback of multimedia programs from your external USB device. Press the PREV/NEXT keys to go to the previous/next program and REV/FWD keys to fast forward or rewind during playback.

OVERVIEW OF THE EQUIPMENT

EPG KEY

Press EPG key to display the on screen electronic program guide. This displays a 7 days Electronic Program Guide for all programs being broadcast from all available broadcasters.



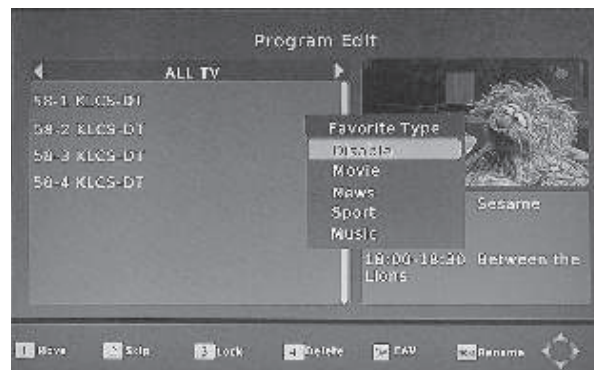
OK/LIST KEY

Press OK key to display all TV channels or all Radio channels. Follow the help information at the bottom of the window to select preferred channel.



FAV KEY

Setting up Favorite TV or Radio Channels:
You can add preferred channels to a favorite's channel list. Press the Menu key to access the Program Edit Menu. The Favorite channel option allows you to classify the channels by different genre: Movies/News/Sports/Music. Press the "FAV" or "OK" key to confirm your selection. A heart shaped symbol will appear next to that channel which confirms your selection.

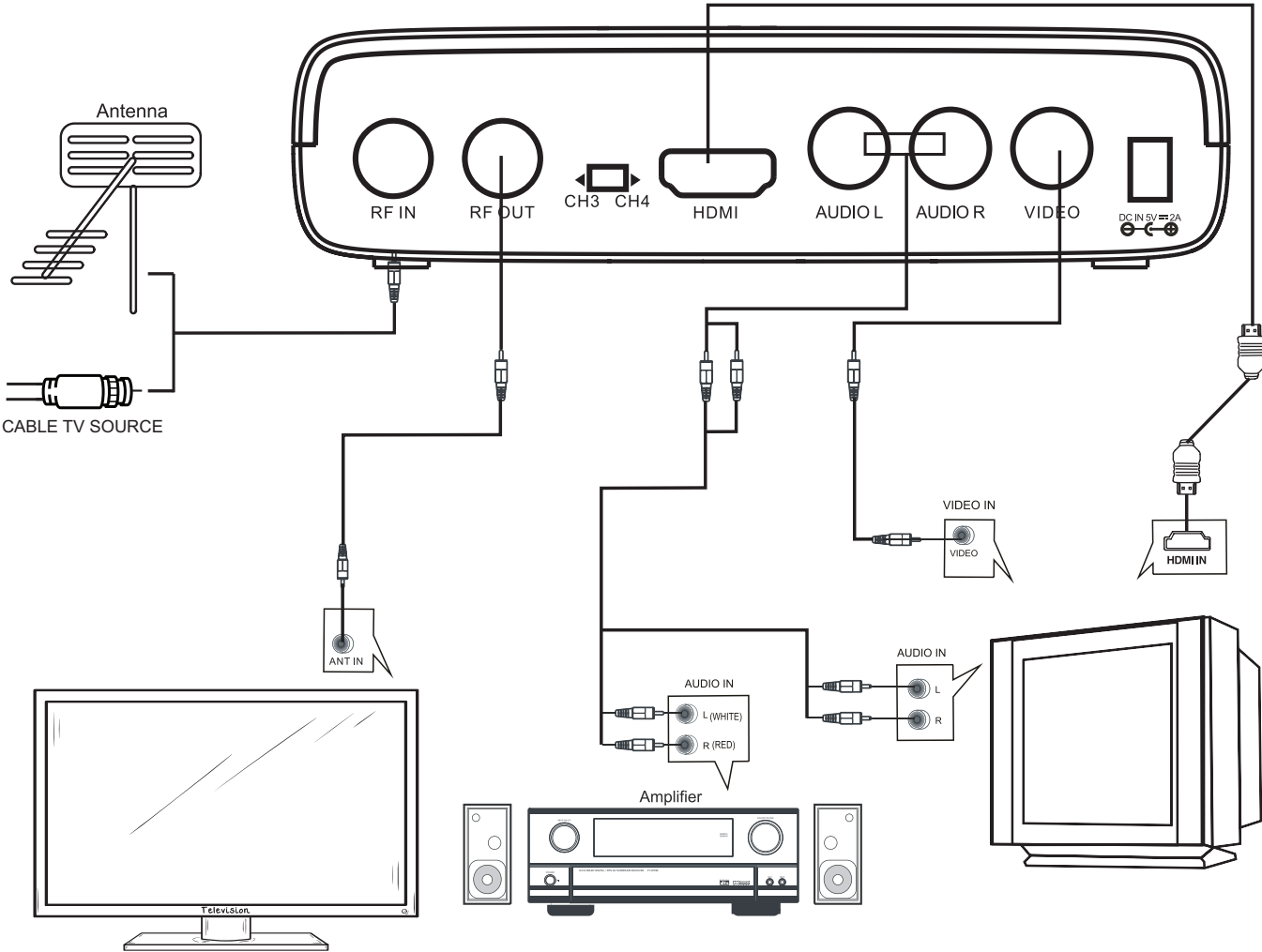


DISABLE FAVORITE TV OR RADIO CHANNEL:

Press the Menu key to access the Program Edit Menu. The list of the favorite channels will be displayed. Highlight the desired channel to be disabled. Press "FAV" button, select the "Disable" option and press the "FAV" or OK" key to cancel. Press the "Exit" key to exit the menu.

CABLE CONNECTIONS

Make sure the STB is connected properly as below:



MENU OPERATION

Press MENU key to display the main menu. It consists of 7 items as following:

- Program
- Picture
- Channel Search
- Time Setting
- Option
- System
- USB

Note: In any page of the menu, you can use EXIT key to return to previous menu page, or press MENU key switch to Main Menu page and then press MENU key again to exit Main Menu.



Figure 1

PROGRAM

Press ▼ key first, then press ► key, enter into Program setting menu. (password: 000000)



Figure 2



Figure 3

Choose the menu as per request (Move/Skip/Lock/Delete/FAV/Rename).

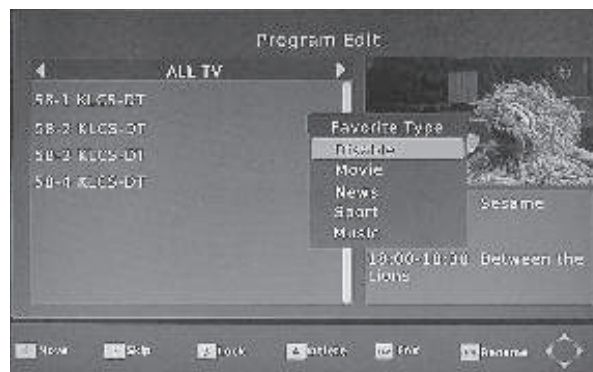


Figure 4

MENU OPERATION

PICTURE

Aspect Ratio:

AUTO, 16:9 Pillar Box, 16:9 Pan & Scan, 4:3 Letter Box, 4:3 Pan & Scan, 4:3 Full, 16:9 Wide Screen

Resolution:

480i, 480p, 720p, 1080i & 1080p (60Hz)

TV Format:

NTSC | PAL



Figure 5

CHANNEL SEARCH

1. Auto Search 2. Manual Search 3. Country 4. RF Output

Use ▲ & ▼ keys to move up and down from one item to another, and press ► key to display corresponding sub-menu.

1. Auto Search In the Main menu, use ▲ & ▼ keys to select Auto Search item, and press ► key to enter into Auto Search menu.



Figure 6



Figure 7

2. Manual Search In the Main menu, use ▲ & ▼ keys to select Auto Search item, and press ► key to enter into Manual Search menu.



Figure 8



Figure 9

MENU OPERATION

1. Number keys allow user to search by channel and or frequency
2. Auto channel search function will search all frequencies
3. Press EXIT to quit

3. Country

In the Main menu, use ▲ & ▼ keys to select Auto Search item, and press ► key to enter into Country menu to select different countries.

4. RF Output The system can output channel 3 or channel 4 NTSC RF signal as following:

1. Use a cable to connect “RF OUT” from the STB to your TV
2. Auto search the program and change current channel to CH3 or CH4 directly by inputting the channel number in your TV.

Loop through output setting The system can select the loop through as following:

1. Use a cable to connect “RF OUT” from the STB to your TV
2. In the the Setup Menu navigate to modulation, and select Loop Through to turn ON/OFF the loop through RF output feature
3. Auto search the program to the target channels. (when searching programs, please use TV Remote)
4. *Note: When under the setting of LOOP THROUGH, the set top box will not play the TV program.*



Figure 10



Figure 11



Figure 12

MENU OPERATION

TIME SETTING

Time Zone: select Time and Timezone.

Sleep: press ► key to select the Sleep Time (1-12 hours).

Power ON/OFF: press ► key into the setting menu, select Power ON Time or Power OFF Time



Figure 13



Figure 14

OPTION

OSD Language: English, Spanish, French



Figure 15



Figure 16

CC Display	CC OFF, CC1, CC2, CC3, CC4, CCS, CC6
CC Position	Auto, Top, Bottom
Front Size	Default, Small, Medium, Large
Front Color	Default, White, Black, Red, Green, Blue, Yellow, Magenta, Cyan
BG Color	Default, White, Black, Red, Green, Blue, Yellow, Magenta, Cyan
CC Transparency	Default, Solid Transparent, Transparent

MENU OPERATION

CHANGING CHANNELS FROM VIRTUAL TO LOGICAL

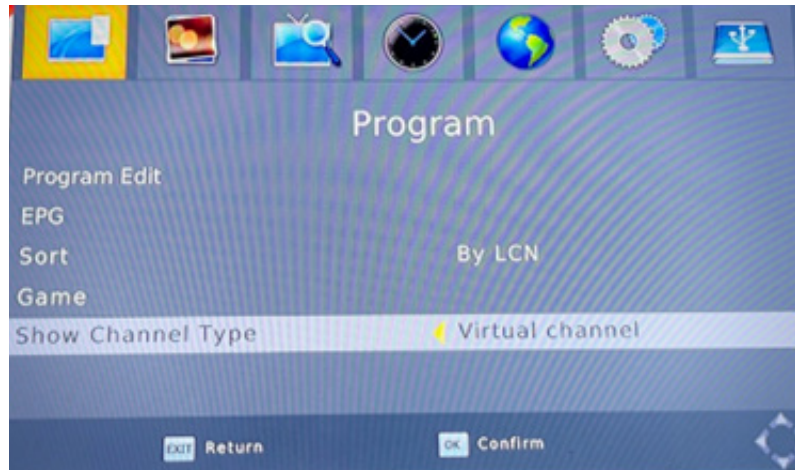


Figure 17

1. Press the Menu button on the remote
2. Use ▼ and highlight the "Show Channel Type"
3. Press ► to change from Virtual to Logical (C106 or 50-4)
4. Once you have chosen the option you want. Press EXIT on the remote
5. Press exit again.

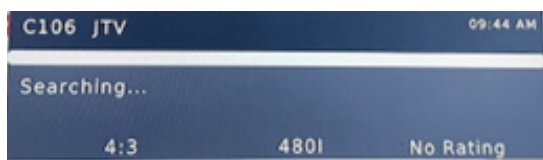


Figure 18



Figure 19



MENU OPERATION

SYSTEM SETUP

In main, select System Setup item and press OK key to enter into System Setup menu. Press the ▲ & ▼ arrow keys to select item and ► key to enter into sub menu or change current item setting.

1. **Parental Guidance:** Press ► key when this item is highlighted, input password.



Figure 20

Password: 000000



Figure 21

Select Rating Region:

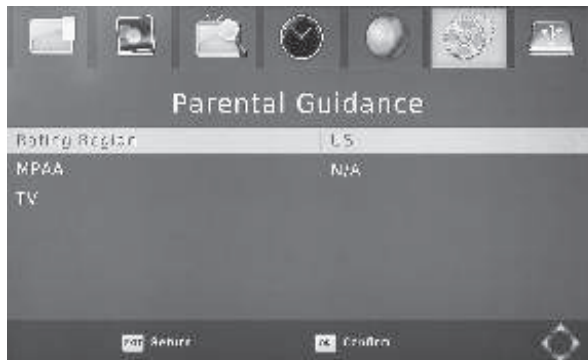


Figure 22



Figure 23

2. **Set Password:** Press ► key when this item is highlighted. (Figure23)

- Input old password (Default 000000)
- Input new password

3. **Restore Factory Default:** Restore system setting parameter to default setting if you press ► key when this item is highlighted.

* **Default password is 000000**

4. **Information:** Restore system setting parameter to default setting if you press ► key when this item is highlighted.



Figure 24

MENU OPERATION

- 5. Software Update:** Insert a USB flash drive while the unit is on, choose upgrade file, press the right directional key to upgrade, make the sure the unit stays on while the upgrade is processing.



Figure 25



Figure 26

USB

Multimedia: MENU=>Multimedia You can now select to view Photos, play MP3 music files and view Movie files via the multimedia player. Known supported files are outlined below.

NTFS, FAT32 and FAT16 file systems are supported

Player	Supported Files
Photo	JPEG, BMP, PNG
Music	* mp3, * aac
Movie	* avi, *mpg, **dat, *vob, *mkv, *mjpeg



Figure 27



Figure 28

Music: You can choose your favorite songs, fast forward & fast rewind, stop and play, go to, REPEAT.

Photo: After choose the specific picture from the preview file, you can press the “Enter” key for the full screen. And press” Play” key enter the slide show mode: if you want the slide show go with music. you need to play the music first and then open the picture, then you will go with slide show+ music.

Movie: You can choose any movie or song as you like, change last and next, fast forward & fast rewind, play and stop, goto, REPEAT and so on. Press the “PLAY” key enter the full screen status.

PVR: Users have the option to choose functions such as removing, editing, or deleting their TV recordings. Controls, including play, stop, previous, next, fast forward, and rewind, can be executed using the remote and selected by the user. To enter Full Screen mode, simply press and hold the remote’s HOLD key.

MENU OPERATION

Photo Configure: Here you can choose slide time, mode and aspect ratio (See figure 29)



Figure 29

PVR (TV RECORDING)

PVR

Choose record device, partition.



Figure 30



Figure 31

How to record a program:

1. RealTime Recording

- To record and save the current TV program, user will need to insert a USB flash drive, and set up the recording and saving route. Refer to Figure 31

Please be advised that all your recording contents are for your personal enjoyment purpose only, they can not be used for commercial distribution.

PVR (TV RECORDING)

2. Programmed Time Recording

Option 1: Press the “TIMER” key on the remote to access the “Programmed Time Record Menu”. (Figure 35)

Option 2: Press the “EPG” key enter the TV program interface (Figure 34), and then press the “Enter” key go into the Programmed Time Record menu (Figure 35), Press the enter key (Figure 36).



Figure 35



Figure 36

- Select the desired channel, and enter the date & time to start recording and the time to end Recording. Press “OK” to confirm then EXIT to go back to previous screen.
- The recorded video will be saved on your external USB drive in PVR file format.

The user can remove/edit/delete the video by pressing the “HOLD” key on the remote to enter the “Full Screen” status.

Options include: Play/stop/last/next/fast forward/fast backward/ repeat



Figure 37



APPENDIX

TROUBLESHOOTING

If you have difficulty with your digital TV set-top receiver, there are several possibilities you should investigate before calling for a service technician.

Problem	Problem Causes	What To Do
The display on the front panel does not light up	Power cord is not connected	Check that the power cord is plugged into power socket
No sound and no picture	The receiver is on standby	Press POWER key on the front panel to switch to operation mode
No signal when selecting channels	The antenna is disconnected	Check antenna connection
	Program parameters are set	Set correct parameters
Picture only, but no sound	Audio cable is not connected securely	Connect it securely
	System in MUTE mode	Press MUTE key on the Remote Control to restore volume
	Volume is set to minimum	Increase the volume to suitable level
	Audio setting parameter is wrong	Please go to Audio Setting menu, select proper audio mode and proper audio language
Sound only, but no picture	Video cable is not connected securely	Connect the video cable securely
	The current channel is in radio mode	Normal
Video and audio mismatch or abnormal sound	Audio channel is not set correctly	Select proper Audio channel
Picture is still or shows mosaic phenomenon	Signal is too weak	Check to make sure that the signal cord has been connected tightly
Remote control unit does not work	Remote Control is not aimed at the sensor on the front panel	Aim at the sensor on the front panel
	Not enough power in the battery of the remote control	Change battery

CAUTION: If the problems are still unsolved after you're done all of these. Do not disassemble the STB yourself! Please contract the dealer, or a trained personnel for assistance.

SPECIFICATION

Tuner	
ATSC Terrestrial Tuner	
RF Input Frequency	54-803MHz
Bandwidth	6MHz
Input Level	-83 to -5dBm
RF	Switchable channel 3 or 4 RF output
Output Ports	2 x HDMI Type A (19-pin female)
Demodulation	
ATSC NTIA Standard, 8VSB, QPSK, 64QAM, 256QAM	
FEC	1/2, 2/3, 3/4, 4/5, 5/6
Guard Interval	1/4, 1/8, 1/16, 1/32, 1/128
FFT Mode	2K, 8K, 32K
Decoding	
MPEG transport stream and A/V decoding	
Video Decoder	ATSC A/72 MPEG2/4 H.264 SD&HD
Aspect Ratio	4:3, 16:9 MP@HL HDTV, MP@ML SDTV ATSC formats
Video Resolution	720 X 480 NTSC/HDMI 1080P
Audio Standard	ISO/IEC 14.496-3
Audio Mode	Mono, Dual-channel, Stereo
Demultiplexer	
Standard ISO/IEC 13818-1; ARIB STB-B10	
Input Max. Bit Stream Rate	36 Mbps (serial) / 9Mbps (parallel)

Input and Output	
RF	in/out
USB	USB 2.0
L/R/CVBS	Output
HDMI	Output
CH 3/CH 4	RF output
Multimedia Features	
Image	JPEG, BMP, PNG
Audio	WMA, MP3, AAC (.wma, .mp3, m4a)
Video	MPEG1, MPEG2, MPEG4, H264, Motion JPEG (.avi, .mpg, .dat, .vob, .div, .mov, .mkv, .mjpeg, .ts, .trp), NTFS, FAT32, FAT16
Mechanical	
Housing	Plastic
Dimensions	5.125" x 4.13" x 1.375" (131mm x 105mm x 35mm)
Weight	0.45 lbs. (204.1 g)
Power Supply	110 VAC, 5VDC 1.5A
Warranty	1 year



CABLETRONIX - 1 Years Limited Warranty

CABLETRONIX. (the “Company”) warrants to the Original Purchaser that the item purchased is free from defects in workmanship or material under normal use. This warranty starts on the date of shipment of the hardware to the Original Purchaser.

During the warranty period, the Company agrees to repair or replace, at its sole option, without charge to Original Purchaser, any defective component. To obtain service, the Original Purchaser must return the item to the Company properly packaged for shipping. All defective products must be returned to the Company within thirty (30) days of failure. Products must be returned with a description of the failure and Return Merchandise Authorization (RMA) number supplied by the Company. To receive a RMA number and a return shipping address on where to deliver the hardware, call 610-429-1821. The shipping, and insurance charges incurred in shipping to the Company will be paid by Original Purchaser, and all risk for the hardware shall remain with the Original Purchaser until such time as Company takes receipt of the hardware. Upon receipt, the Company will promptly repair or replace the defective unit, and then return said unit to Original Purchaser, shipping prepaid. The Company may use reconditioned or like-new parts or units, at its sole option, when repairing any hardware. Repaired products shall carry the same amount of outstanding warranty as from original purchase. Any claim under the warranty must include dated proof of purchase or invoice. In any event, the Company’s liability for defective hardware is limited to repairing or replacing the hardware.

This warranty is contingent upon proper use of the hardware by Original Purchaser and does not cover: if damage is due to Acts of God (including fire, flood, earthquake, storm, hurricane or other natural disaster), accident, unusual physical, electrical, or electromechanical stress, modifications, neglect, misuse, operation with media not approved by the Company, tampering with or altering of the hardware, riot, war, invasion, act of foreign enemies, hostilities (regardless of whether war is declared), civil war, rebellion, revolution, insurrection, military or usurped power or confiscation, terrorist activities, nationalization, government sanction, blockage, embargo, labor dispute, strike, lockout or interruption or failure of electricity, air conditioning, or humidity control, Internet, network, or telephone service.

The warranties given herein, together with any implied warranties covering the hardware, including any warranties of merchantability or fitness for a particular purpose, are limited in duration to one year from the date of shipment to the Original Purchaser. Jurisdictions vary with regard to the enforceability of warranty limitations, and you should check the laws of your local jurisdiction to find out whether the above limitation applies to you.

The Company shall not be liable to your for loss of data, loss of profits, lost savings, special, incidental, consequential, indirect, or other similar damages arising from breach of warranty, breach of contract, negligence, or other legal action even if the Company or its agent has been advised of



the possibility of such damages, or for any claim brought against your by another party. Jurisdictions vary with regard to the enforceability of provisions excluding or limiting liability for incidental or consequential damages. You should check the laws of your local jurisdiction to find out whether the above exclusion applies to you.

This warranty allocates risks of product failure between Original Purchaser and the Company. The Company's hardware pricing reflects this allocation of risk and the limitations of liability contained in this warranty. The warranty set forth above is in lieu of all other express warranties, whether oral or written. The agents, employees, distributors, and dealers of the Company are not authorized to make modification to this warranty, or additional warranties binding on the Company. Accordingly, additional statements such as dealer advertising or presentations, whether oral or written, do not constitute warranties by the Company and should not be relied upon.

This warranty gives you specific legal rights. You may also have other rights which vary from one jurisdiction to another.