Model: ATSC

SW: Version 20131114V1.0 Hardware: 78161237820650

# 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	Possible 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 under standby	Press POWER key on the front panel to switch to operation mode
	The antenna is disconnected	Check antenna connection
No signal when selecting channels	Program parameters are set incorrectly	Set correct parameters
	Audio cable is not connected securely	Connect it securely
	System in MUTE mode	Press MUTE key on the RCU to restore volume
Picture only ,but no sound	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	Video cable is not connected	Connect the video cable securely
picture	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 mosaic phenomenon	Signal is too weak	Check to make sure that the signal cord has been connected tightly
Remote control unit does	RCU is not aimed at the sensor on the front panel	Aim at the sensor on the front panel
not work	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 yourselff Please contract the dealer, or a trained personnel for assistance. 28

# Appendix

# Specifications

Tuner	
Input Connector	IEC 16902. Female
Input Frequency Range	VHF & UHF
Num of RF Inputs	1
Input impedance	75 ohm
RF output Connector	(bypass)IEC 169-2 Male
Loop through	57 -803 MHz

ETSI EN300 744

1/32,1/16,1/3,1/4 Active Symbol duration
1/2,2/3,3/4-5/6,7/8

All modes supported including non hierarchical
COPDM(QPSK/QAM16/QAM64) 2X and 8K

6 MHz

ISO/IEC 13818-2 and ISO/IEC 14496-10
ISO/IEC 13818-2
MPEG\_2 SO/HO (MBMML, NPBL1 and HPBL4), MPEG-4 H 264/AVC SD/HD
MVX A.Y. -S.Y.
MPEG\_MMP, MNG, Motion JPEG
ANI, VOID, MOV, MVY
4.3 16:9 Video Decoder

Aspect ratio

Audio Decoder

Standard

Audio decoding ISO/IEC18818-3 TS101154
MREG-1 and MREG-2 Layer I & III, Dolby Digital Audio, WMA and HE-AAC Digital
Audio
20 Mrt, 22.1 Mrt, 44.1 Mrt, 46 Mrt

# Accessories IR (36kHz) RC3 / other on request (38kHz)NEC 1 pc 1 pc 1 pc

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# Digital TV Convertor User Manual

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### **Package Content**







Remote Control

RF Cable





1

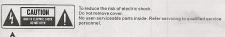
### Safety Warning

### **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 exace 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 encouraged to ry to correct the interference propose 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**





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

This symbol indicates important instructions accompanying the product.

- I. Read, follow and keep these instructions, 2.0 on ot use this apparatus near water. 3. Clean only with a damp cloth. Please unplug power prior to cleaning. 1.0 on ot block any of the ventilation openings. Install in accordance with the manufacturer's

- The form of the second of the

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.

# Safety Warning

### **Precautions**

Please read these precautions before operating this unit.

To avoid any malfunctions of the unit, and to protect against electric shock, fire or personal injury, please observe the following.

- Hold the plug firmly when connecting or disconnecting the AC power cord.
   Keep the AC power cord away from heat graphiances.
   Never put any heavy object on the AC power cord.
   Do not attempt to repair the AC power cord in any way.
   Never make or change connections with the power switched on.

2.Placement
Avoid placing the unit in areas of:
-Direct sunlight or heating radiators
-Direct sunlight or heating radiators
-High temperature (over 35 C) or high humidity (over 90%)
-Dust as the internal parts may be seriously damaged.

When the unit is not being used, turn it off. When left unused for a long period of time, the unit should be unplugged from the power source.

#### 4.No fingers or other objects inside

Touching internal parts of this unit is dangerous, and may cause serious damage to the unit. Do not attempt to disassemble the unit.
 Do not put any foreign object in this unit.

#### 5.Keep away from water

Keep the unit away from flower vases, tubs, sinks, etc. if liquids are spilled into the unit, serious damage could occur.

### Overview Of The Equipment

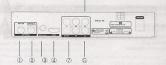
#### 1. Front Panel



- 1 POWER BUTTON: Press to power on/off the converter box

- 2 IR: Remote control receiver 3 LED indicator 4 USB 5 CH+ / CH-: Channel up/down

### 2. Rear Panel



- 1. ANT IN Connect to terrestrial antenna
- 2. RF OUT CH 3/4 NTSC RF output
- 3. COAXIAL Coaxial digital audio output
- 4. HDMI HDMI output
- 5. L-AUDIO R Connects these terminals to analog audio inputs of a TV set. Or nect these terminals to the L/R inputs of a separate audio component
- 6. Y/Pb/Pr Component video output
- 7. 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

### 4

# Overview Of The Equipment

#### 3. 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
- O 9: Press to enter the required numbers in the input box or select a channel towatch
  Press directly to tune a particular channel.

- Press directly to tune a particular channel.

  LIST: Press to display all TV channels or all Radio channels

  REC: Press to start recording

  STOP: Press to start recording

  MENU: Press to display the Main Menu on the screen

  EXIT: Press to return to the previous menu

  ATVICH+I: Move cursor up(down; Channel + /
  III PIVOL+I: Move cursor left/right; Volume + /
  OK: Confirm

- | Improvement |

- TIMER: Press to go to Programmed Time Recording setup
  AUDIO: Switch Audio channel

5

# 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 multiingual audio language and this audio broadcast may be on a different audio mode such as Sieros Left or Right. All the available audio languages will be displayed on the such control of the such such as the audio output aller you have reset audio language. It indicates that there is no audio on the current audio mode, so you have to select the previous audio mode.



Certain programs have multilingual subtitle information. All available subtitle languages will be displayed in the subtitle information window when you press the SUBTITLE key. The screenshot litustrates this below. Follow the help information in the subtitle window to select preferred subtitle.



# **◄ 4 4 ♦ ♦** (PREV / NEXT) key **4 4 4 4 8 • • 1** (F.R. / F.F) key

The PREV/NEXT key and F.R./F.F. key can be used during playback of multimedia programs from your external USB device. Press the PREV/NEXT key to go to the previous/next program and F.R./F. key to fost 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.



**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.

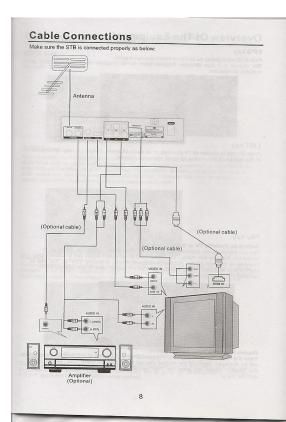
### FAV key

Setting up Favorite TV or Radio Channels:
You can add preferred channels to a favourite's channel list. Press the Menu key to access the Program Edit Menu. The Favourite channel option allows you to classify the channels by different genne: 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 Favourite TV or Radio Channel:

Press the Menu key to access the Program Edit Menu. The list of the favourite 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.



# 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.

### Program



Figure 1

9

### Menu Operation

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





Figure 3

10

### Menu Operation

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



Figure 4

# Picture



Figure 5

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: 480, 1809, 720p, 10801 & 1080p (60Hz)
TV Format: NTSC / PAL



# Channel Search



Figure 6

Figure 6

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.

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



Figure 7

12

#### Menu Operation



Manual Search In the Main menu, use ≜ š ▼ keys to select Auto Search item, and press ▶ key to enter into Manual Search menu.



Figure 9

13

### Menu Operation

- You can press the number keys into channel, or press directional keys to choose.
   Suggestion using auto channel search
   Press EXIT to quit



Figure 10

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



Figure 11 14

### Menu Operation

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

 Use a cable to connect "RF OUT" converter of the STB and your TV can support CATV input. Auto search the program and change current channel to CH3 or CH4 directly by inputting the channel number in your TV.



Figure 12

Loop through output setting
The system can select the loop through as following:
The system can select the loop through as following:
1. Use a cable to connect FR CDUT converter of the STB and your TV can support CATV input
2. Go to the Setup Menu and ON/OFF: the loop through RF output
3. Auto search the program to the target channels; when searching programs, please use TV Remote)
Note: When under the setting of LOOP THROUGH, the machine will not play the TV program.



Time Zone: select Time and Timezone.

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

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



Figure 13



Figure 14

16

### Menu Operation



OSD Language: English, Spanish, French

#### Close Caption



Figure 16

17

### Menu Operation

CC Display	CC OFF, CC1, CC2, CC3, CC4, CC5, 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		

### System Setup

In main menu, select System Setup item and press OK key to enter into System Setup menu.

- Press ▲ & ▼ 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 17

### **Menu Operation**

Password: 000000



Figure 18



Figure 19

### Menu Operation

- Set Password: Press ▶ key when this item is highlighted.
  -> Input old password (Default 000000)
  -> Input new password



Figure 20

Restore Factory Default: Restore system setting parameter to default setting if you press key when this Item is highlighted.
 Default password is 000000



Figure 21

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

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### Menu Operation

- 5. Software Update: Insert USB disk while the unit on, choose the upgrade file, press the right directional key to upgrade, make the sure the unit stays on while the upgrade is processing.
- \* If firmware update is needed, we will upload the most update firmware & instruction on our website: www.mediasonic.ca



Figure 22



21

# **Menu Operation**

#### USB

### Multimedia

MENU=Multimidia 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 film systems are continued below.

Player	Supported file	
Photo	JPEG, BMP, PNG	
Music	*.wma, *.mp3, *.aac	
Movie	*avi, *mpg, *dat, * vob, * mkv, * mineg	





Figure 25 22

# Menu Operation

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: Depends on user's choose, there are some functions like remove/ledit/delete and so on. Play/stop/last/next/fast forwart/fast rewind/repeat all these functions can be done with the remote, just according to what the user's request. If you press the remote's "HOLD" key, you will enter the "Full Screen" status.

### **Photo Configure**

Here you can choose slide time, mode and aspect ratio (See figure 26)



Figure 26

### PVR (TV Recording)

Choose record device, partition



Figure 27

Recording way

1. Real-time recording

TV program, if you need to record and save the current TV program, please insert USB hard drive, and set up the recording and saving route and position. As the picture's introduction:



Figure 28

24

# PVR (TV Recording)

2. Programmed Time Recording
Option 1. Simply press "TIMER" key on the remote to go to Programmed Time Record menu.
(Figure 32)
Option 2: Press the "EPG" key enter the TV program interface(Figure 31), and then press the
'Enter' key join to the Programmed Time Record menu(Figure 32), Press the number key '1'
enter it (Figure 33).



Figure 31



Figure 32 26

### PVR (TV Recording)

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

they can not be used for commercial, distribution & public showing purpose.

Timeshiff trunction allows you to pause the TV program being viewed. Once paused the TV program is being stored on your connected USB Hard Orive or Flash Drive.

When watching a program, press the PLAY key on the remote control to activate the function, You can now use the F.R. (Rewind function) to go back to the point you began the TIMESHIFT function or F.F. (Fast Forward) to catch up to live viewing. If you wish to stop the TIMESHIFT function, press the \$TOP key.



• Figure 29

To save space of the USB hard drive, the recorded program is not stored under time shift mode. If you press the INFO key, you can access the TIMESHIFT information screen.

WARNING: For the compatibility of HDD and USB devices with TIMESHIFT and PVR function, please refer to the

	TIMESHIFT	PVR RECORD	FORMAT
USB flash drive	Works	Works	Fat32
3.5inch HDD	Works	Works	NTFS
2.5inch HDD	Works	Works	NTFS / FAT 32
1.8inch HDD	doesn't work	Works	NTFS / FAT 32

### Recording

-> Press the remote's "REC" key to enter the recording status, and press the "Stop" key when you finished the recording, so the whole record function will be done.



Figure 30

25

# PVR (TV Recording)



- -> Select the desired channel, key in the date & time to start recording and the time to end recording, press \*Ok\*10 confirm then ENT to go back to previous screen.

  The user can remove defidied the your external USB drive or Hand drive is remove. The user can remove defidied less that the start of the service of the start of t



Figure 34

NOTE: you can change & watch different channels while a selected channel is in recording mode.