# LASONIC®

## LTA-260
### ATSC Converter Box
### USER MANUAL
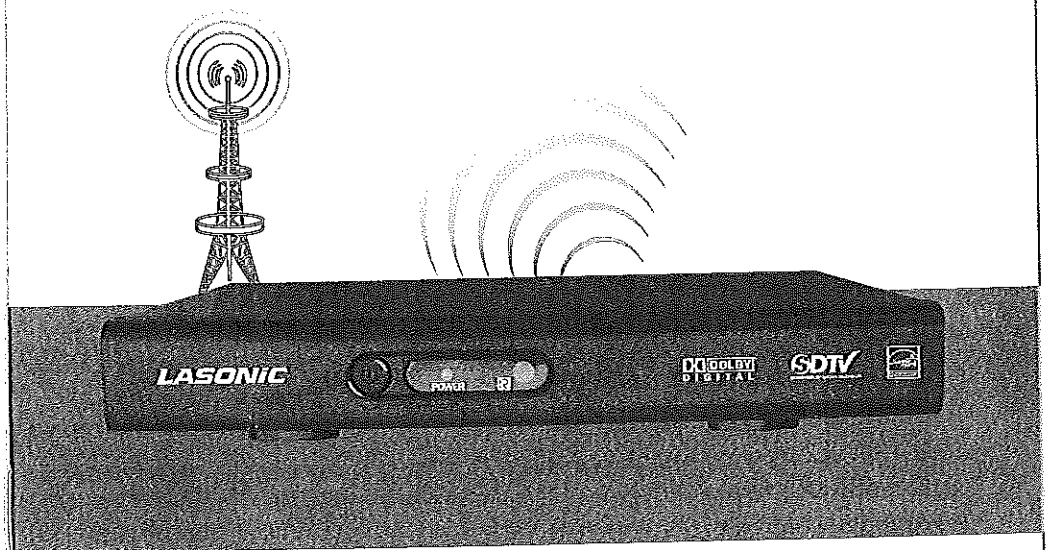
DOLBY DIGITAL

SDTV
STANDARD DEFINITION TELEVISION

ENERGY STAR

Product that have earned the ENERGY STAR® are designed to protect the environment through superior energy efficiency

# CONTENTS

**FCC Notice**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
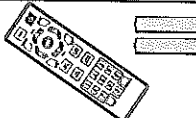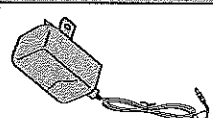
**WARNING:** FCC Regulations state that any unauthorized changes or modifications to this device not expressly approved by the manufacturer could void the user's authority to operate this device.

## 2. TRADEMARKS

DOLBY
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Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished works. ®1992-1997 Dolby Laboratories, Inc. All rights reserved.

## 3. ACCESSORIES

| Remote Control and Size AAA batteries | AC Adapter | User Manual | RF Cable |
|---|---|---|---|

## 4. BEFORE OPERATING

### 4-1. Prepare the Remote Control

Please insert the batteries into remote controller.

Battery Cover
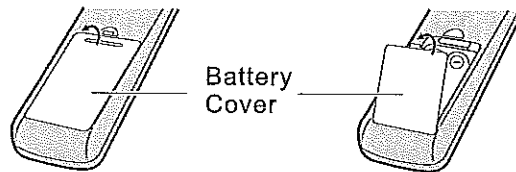
**Note:** Be sure to match the battery terminal with the +/- marks inside the remote control.

## 4-2. Antenna Connections
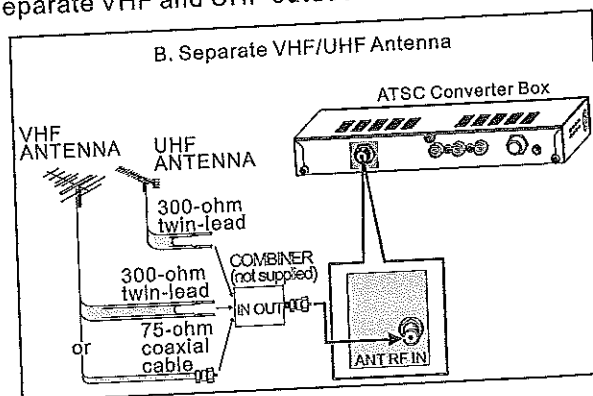
① Outdoor Antenna Connection.

Refer to one of the following diagrams while connecting the outdoor antenna.

● Using a VHF/UHF combination outdoor antenna.
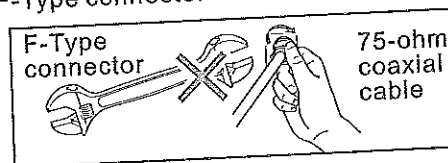


A. Combination VHF/UHF Antennas
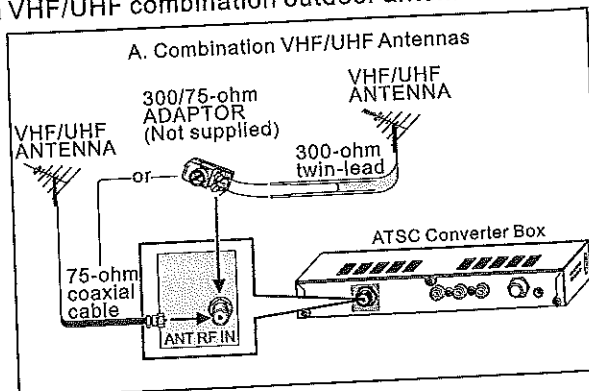
● Using separate VHF and UHF outdoor antenna.



B. Separate VHF/UHF Antenna

Connect an outdoor antenna cable lead-in to F-Type terminal.

(Notice: F-Type connector should be finger-tightened only.)

## 4-3. Connect to your analog signal TV display

① AV Cable Connection.

    Please plug one terminal of the RCA Cable into the device RCA connector, and plug the other terminal into TV, YELLOW for VIDEO, RED for AUDIO (RIGHT), WHITE for AUDIO (LEFT).
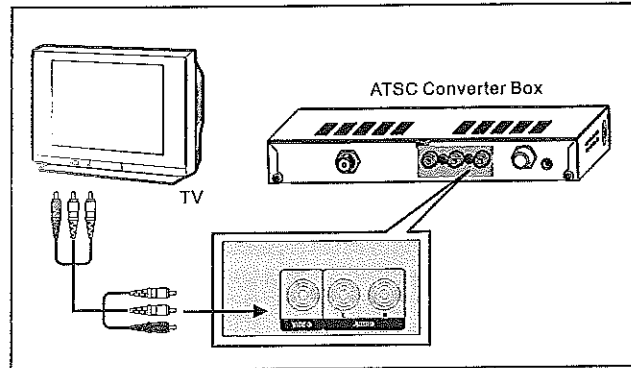


②RF Cable Connection

    If the TV have only RF Antenna terminal, please screw 75ohm F-Type RF cable into AV RF OUT terminal of the device, plug the other terminal into TV set. (Please refer to your TV manual).
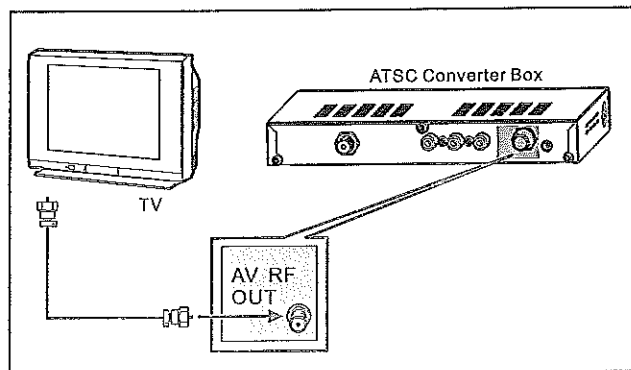


Note: RF output is modulated with current channel audio.

## 5. Quick Reference Control Operation

### 5-1. Front Panel



Front Panel

① Power Button:
Press → On;
Press Again → Standby.

② Power Indicator:
On means work normally,
Off means no power or standby.

③ IR window:
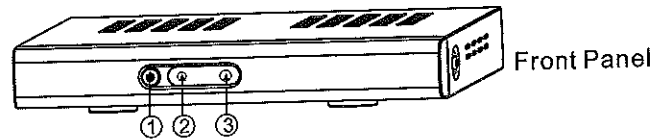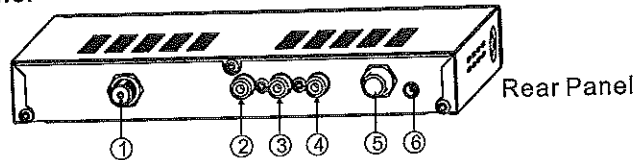Infrared receiving window.

### 5-2. Rear Panel



Rear Panel

① **ANT RF IN** : Antenna RF Input.
② **Video** : Video Output.
③ **Audio L** : Audio Left Output.
④ **Audio R** : Audio Right Output.

⑤ **AV RF OUT** : Audio/Video RF Output.

⑥ ⊖-⊙-⊙ : AC Adapter DC IN(+5V).

### 5-3. Remote Control

① **MUTE:** Mute or restore sound.

② **SCREEN:** Select TV Mode: 4:3 or 16:9.

③ ◄/► : Decrease/Increase audio volume.
or move cursor in menu screen.

④ **INFO:** Display viewing channel information.

⑤ **ANT LEVEL:** Display Antenna RF signal
strength and quality.

⑥ **CH SCAN:** Start channel auto scanning.

⑦ **0-9:** Set the channels or number keys.

⑧ **AUDIO:** Select audio language .

⑨ ⏻ **POWER** : Power ON/ OFF.
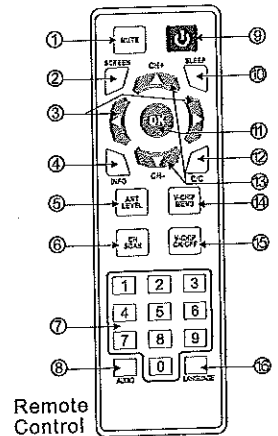


Remote
Control

⑩ **SLEEP**: Switch the sleep timer setting.

⑪ **OK**: Use to confirm the channel selection and other operation.

⑫ **C/C**: Switch Close Caption Service or On/Off.

⑬ **CH+/CH-**: Select next / previous channel or move the highlight for menu item.

⑭ **V-CHIP MENU**: Enter or exit the V-CHIP setting menu.

⑮ **V-CHIP ON/OFF**: V-CHIP on / off temporarily.

⑯ **LANGUAGE**: Select OSD language: English / Spanish / French.

## 5-4. Easy Setup for first use

Please check and follow below instructions to enjoy the digital TV program.

① Insert the batteries into remote control.

② Connect the antenna cable into the device.

③ Connect the audio/video or RF output into your TV.

④ Connect the AC adapter to DC IN Jack of the device, and then plug the AC adapter to the outlet.

⑤ Press POWER to turn on the device, the Power LED will be lighten.

⑥ Turn on your TV, and refer to the TV manual.

   • If you use RCA cable, please switch to AV IN.

   • If you use RF cable, please rescan the TV channels.
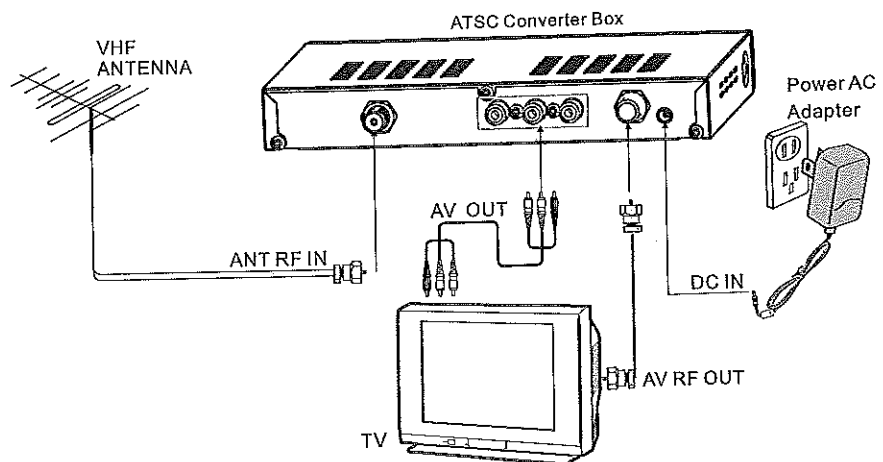
⑦ Press "**CH SCAN**" to scan ATSC program channels.

| Easy Install | |
|---|---|
| RF Channel | RF CH 3 |
| Audio Mode | Mono |
| Time Zone | Alaska (AKST) |
| Auto Scan | |
| ▼▲ Select   OK Enter | |

Press "**OK**" to start Auto scan, It may take you several minutes.

| Auto Scan | |
|---|---|
| Range 54.0-806.0 MHz | |
| Frequency 79.00MHz | Ch No. 5 |
| | 40% |
| Found: | |

**Note:**
- If you use F-Cable to connect the equipment and the TV, please set "Audio Mode" to 'Mono" mode.
  If you change the RF Channel to CH3 or CH4, you need to rescan. (Please refer to your TV manual.)
- While you use RCA cable to connect to your TV. If your TV only have one jack for audio in, you can set "Audio Mode" to "Mono" mode. Unless set "Audio Mode" to "Stereo" mode.
- To Select the Time zone, use "**CH+/CH-**" to focus "Time Zone", then use " ◄ / ► " to select the zone where you are located: Alaska, Haweii, Pacific, Mountain, Central, Eastern.
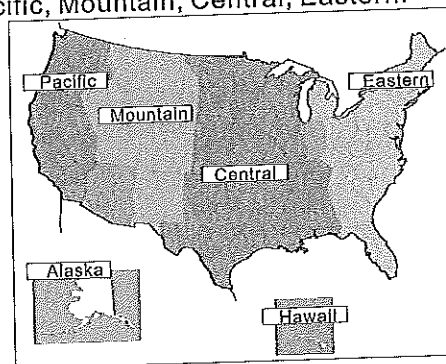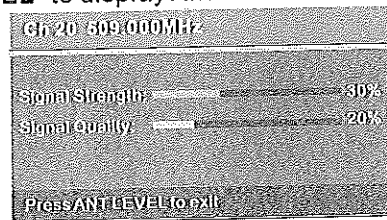
⑧ Press "**LANGUAGE**" to select OSD language: **English**, **French**, **Spanish**.
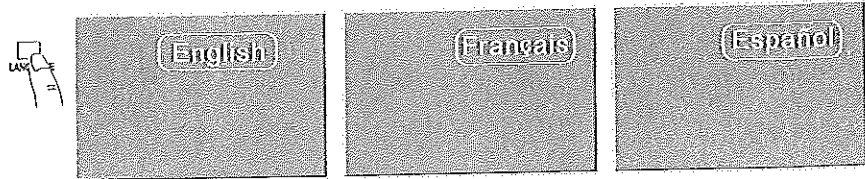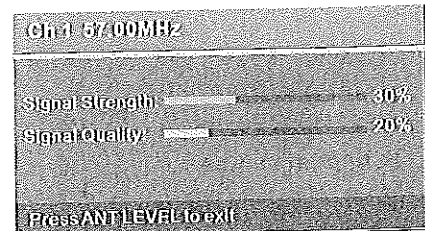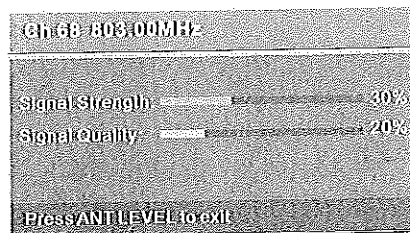


## 5-5. Antenna Setup

① Press "**ANT LEVEL**" to display Antenna Level.



② Press "**CH+/CH-**" to select the channel. It will show the current channel signal strength and quality.



③ Adjust the antenna direction and position to receive the signal strength level 60 or higher.

④ Press "**ANT LEVEL**" again to exit the antenna signal level information.
   **Note:** Before operating the other functions, you have to exit the **ANT LEVEL**.

## 6. Basic Operation

### 6-1. Channel Scan

Press "**CH SCAN**" to scan the ATSC program channel, it will memory all channels found.



- Press ◀ ▶ to select "Auto Scan", then press "OK" to begin Auto scan.



### 6-2. Channel Information

Press "**INFO**" to display the program information, including:

① Channel number,       ⑤ Resolution,       ⑧ V-CHIP rating,
② Broadcast station,      ⑥ Display Format,    ⑨ Current Time,
③ Hour of Current Program, ⑦ Closed Caption,   ⑩ Program information.
④ Audio service type,

## 6-3. Select Program Channel

① Press "**CH+/CH-**" to select the channel.

Note: It is only valid after scanning channels. (Please refer to "**CH SCAN**").

② Press "**0-9**" buttons to select the channel.
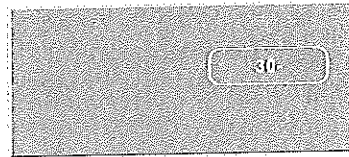
Note: 3 digit numbers need to select the channel,
Example: Input "**3**" "**0**" "**2**" to select channel 30-2.

## 6-4. OSD Language

Press "**LANGUAGE**" to select the On Screen Display Language:
English, French, Spanish.

## 6-5. Closed Caption

① The device supports Closed Caption decoding function, the "Closed Caption" is a system which allows conversations, narration, and sound effects in TV programs and home videos to appear as captions on the screen.

— 12 —

② Not all the programs and videos offer closed captioning.

③ Press "**C/C**" to get the "Closed Caption" service:

OFF ➝ Service1 ➝ Service2 ➝ Service3 ➝ Service4 ➝ Service5 ➝ Service6 ➝ Caption 1 ➝ Caption 2 ➝ Caption 3 ➝ Caption 4 ➝ Text 1 ➝ Text 2 ➝ Text 3 ➝ Text 4 ➝ OFF.
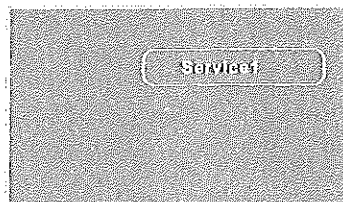


## 6-6. Parental Control (V-CHIP)

① This function allows you to restrict TV programs based on FCC data, and prevent your children from watching violence or sexual scenes that maybe harmful.

② Restriction of TV programs includes two characters that contain information about MPAA rating and the TV Parental Guidelines. MPAA is restricted by age. TV Parental Guidelines are restricted by ages and contents.

● MPAA RATING

| Rating | | | |
|---|---|---|---|
| Age Based | G | General Audiences | All ages admitted. |
| | PG | Parental Guidance Suggested | Some material may not be suitable for children. |
| | PG-13 | Parent Strongly Cautioned | Some material may be inappropriate for children under 13. |
| | R | Restricted | Under 17 requires accompanying parent or adult guardian. |
| | NC-17 | | No 17 and under Admitted. |
| | X | | Unified with NC-17. |
| | NR | Not Rated | |

## • TV PARENTAL GUIDELINES.

| Rating | | |
|---|---|---|
| Age Based | TV-Y | All children. |
| | TV-Y7 | Direct to Older Children. |
| | TV-G | General Audience. |
| | TV-PG | Parental Guidance Suggested. |
| | TV-14 | Parents Strongly Cautioned. |
| | TV-MA | Mature Audience Only. |
| Content Based | ALL | All Scenes blocked. |
| | FV | Fantasy Violence Scene. |
| | V | Violence Scene. |
| | S | Sexual Situation. |
| | L | Adult Language. |
| | D | Sexually Suggestive Dialog. |

③ Selecting a lower age rating's content setting to block automatically change the same higher age rating's content setting to block.

④ How to set V-CHIP.

- Press "**V-CHIP MENU**" to access V-CHIP menu screen, and then set up V-CHIP.

  Need to input password by press "**0-9**" (default is "**0000**").
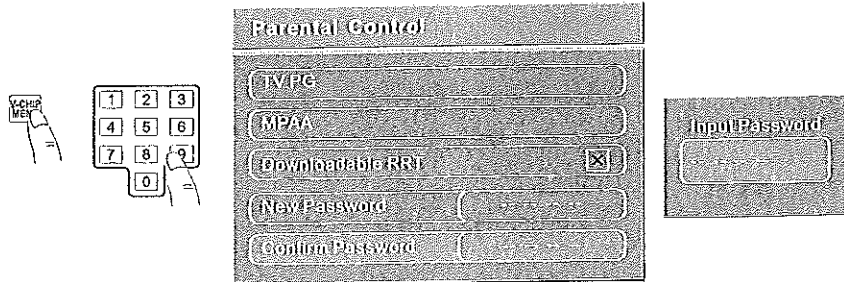


- Press "**CH+/CH-**" to select the "TV PG" and "MPAA".

  Press "**OK**" to access the parental control screen.

  Press "**V-CHIP MENU**" to exit the V-CHIP Menu Screen.
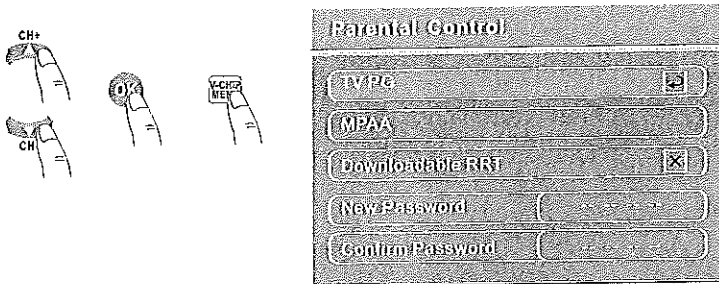


- Press "**CH+/CH-**" to select the rating and press "**OK**" to block the rating, higher rating will be blocked automatically.

  Press "**V-CHIP MENU**" to main V-CHIP menu.

- Press "**CH+/CH-**" to select "New Password" to modify the parental control password.
  - ◆ Please don't forget the password you have set up.
    If password is lost, you can not access the V-CHIP MENU again.

◆ While program exceeds the rating setting, screen will show
**"V-CHIP block"** , and video /audio will be blocked.

1). Press **"V-CHIP ON/OFF"** to inactive the V-CHIP temporarily.
The correct password is needed for it.

2). If you turn the power on from off, the "V-CHIP block" will be
activated again.
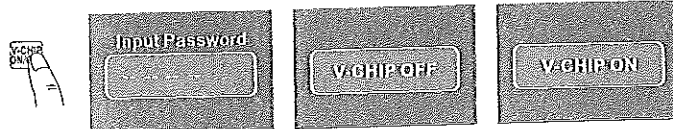


⑤ Downloadable Digital Rating.
● When the system receives Downloadable Digital Rating Table, the
"Downloadable RRT" item will be actived in V-CHIP Menu Screen.
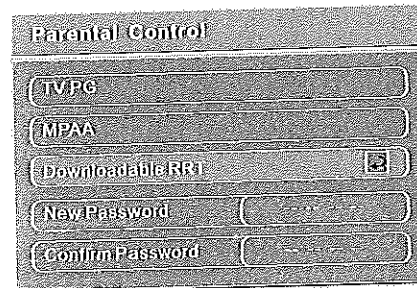


● Use "CH+/CH-" to Select "Downloadble RRT" and press **"OK"**, it will
show the all Dimensions of digital rating
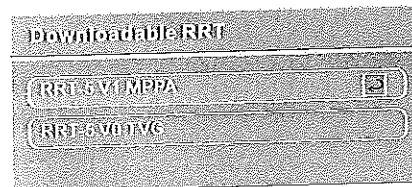
- Use "**CH+/CH-**" to select the Dimension and press "**OK**" to show all rating setting of the chosen Dimension.
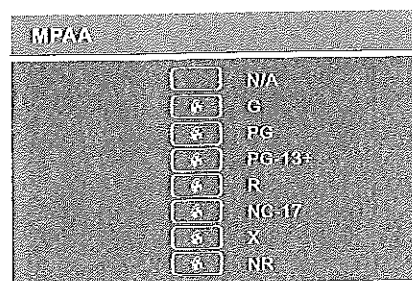


- Use "**CH+/CH-**" to choose V-CHIP rating, and press "**OK**" to block or unblock the specific rating program.
- Press "**V-CHIP MENU**" to exit current menu screen.

## 6-7. MUTE

- Press "**MUTE**" to mute all audio out,



- Press "**MUTE**" again to cancel mute.



## 6-8. AUDIO MENU

Press "**AUDIO**" to select the Audio Language: <u>English</u>, <u>Spanish</u>, <u>French</u>.

## 6-9. SCREEN MODE

Press "**SCREEN**" to select screen mode: 4:3LB, 4:3PS, 16:9.



| Source | screen : 4:3 LB | screen : 4:3 PS | screen : 16:9 |

## 6-10. SLEEP TIMER

Press "**SLEEP**" to display current Sleep Timer .

Press "**SLEEP**" again to change the sleep timer setting:

- 240Min ➡ OFF ➡ 30Min ➡ 60Min ➡ 90Min ➡ 120Min ➡ 150Min ➡ 180Min ➡210Min.

While the timer is reached, the device will enter standby mode automatically.
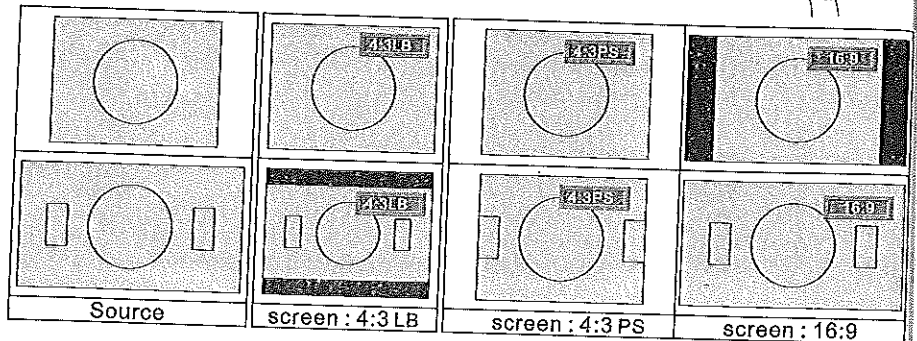
# 7. Before Calling for Service

## 7-1. Quick Service Check List

Check these items and see if you can correct the trouble.

① No Picture.

- Please turn your TV on and set it right. You may refer to the TV Set manual.

1). Check AV Cable or RF Cable is stable.

2). Check TV is set to AV IN, and AV cable is connected to right terminal. And check the TV channel is right. If not, plese scan the TV channels.

- Try a new channel, maybe that is station problem.

1). Rescan ATSC program.

Check antenna connection is perfect.

2). Refer to "ANT Level".

② No Sound.
 • Please check the AV cable is connected correctly.
 • Try a new channel.
  1). Maybe there is no sound for viewing program channels.
 • Press "**MUTE**". Maybe MUTE was set before.
 • Please check if your TV is on "**MUTE**" mode.
③ Remote control does not work.
 • Check the batteries are installed properly.
④ The warning message about the digital broadcast.
 • "No Signal".
  Check the RF cable and antenna setup.

## 8. General Specifications

| Model | | LTA-260 |
|---|---|---|
| Description | | ATSC Coupon-Eligible Converter Box |
| IN/OUT JACK | RF IN | F-Type Jack for ATSC Antenna. |
| | Video | RCA Jack for Video output. |
| | Audio | 2 RCA Jack for Stereo Audio output. |
| | RF OUT | F-type Jack for Modulated AV RF Out (NTSC CH3/4). |
| | DC IN | 5V 1.4A. |
| ATSC Compatible | | Band Width: 6MHz.<br>Band: 54MHz-807MHz<br> CH 2 ~ 69.<br>Modulated Method: 8VSB.<br>RF Sensitivity: -83 ~ -5dBm. |
| Audio Spec | | Level: 1.2Vrms (1kHz).<br>S/N: >60dB. |
| Video Spec | | Level: 1Vpp. |
| Operating Temperature | | 5° C ~ 35° C |
| Size | | 180(L) X 124(W) X 27(H)mm. |
| Weight | | 850g |

## 9. Remote Controller Code

9-1. Identify custom code: 00FF.

9-2. Remote key code.
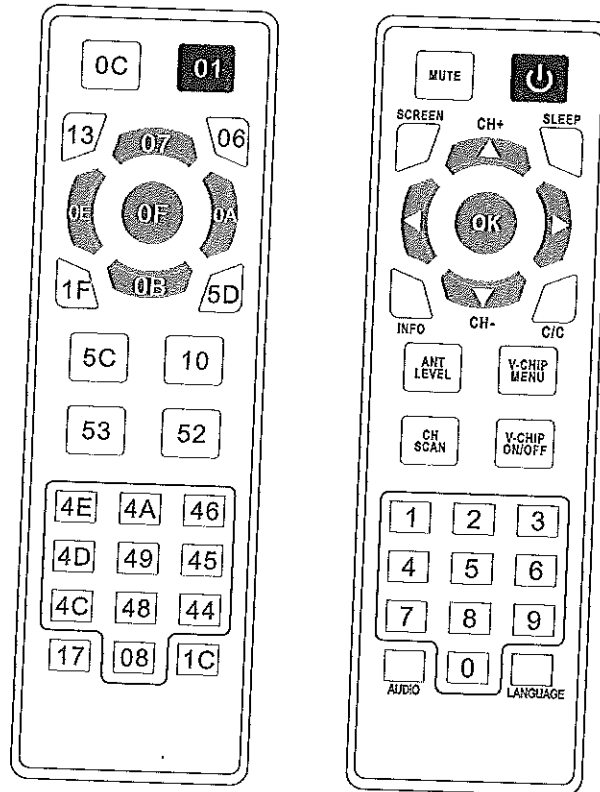


### 9-3. Universal Remote Controller setting

For using Universal Remote Controller, please set the remote code as TOSHIBA TV or DVD. More information, please refer to the user manual of Universal Remote Controller.

After setting up successfully, "**POWER**", "**CH+**", "**CH-**", "**VOL+**", "**VOL-**" can be functioned by the Universal Remote Controller.

**Note:** You may need to try every TOSHIBA code to find the properly remote controller code.