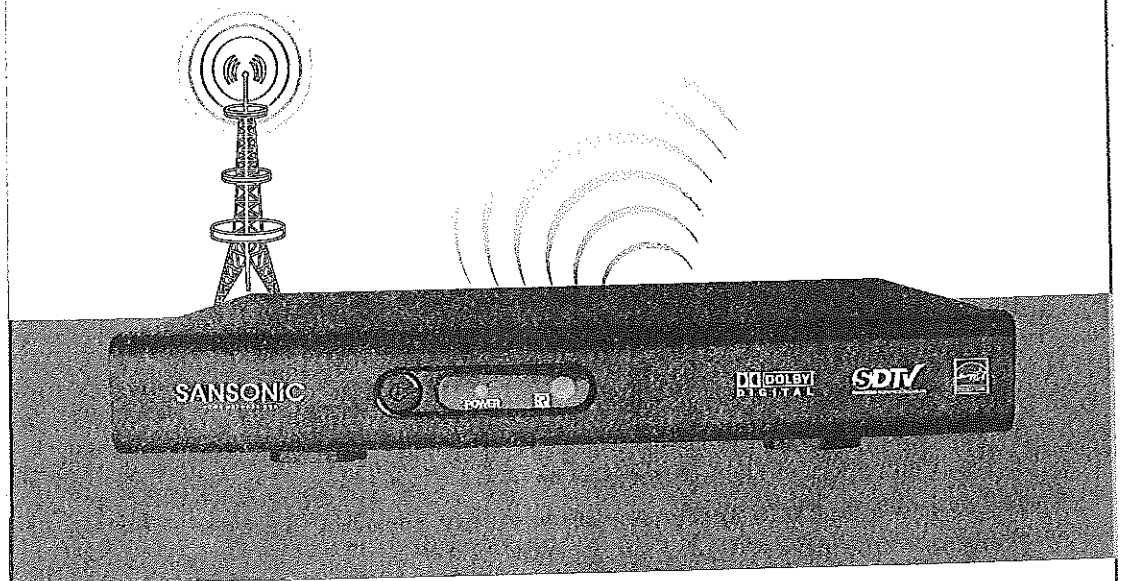


**SANSONIC**  
HOME NETWORK BOX

**FT-300A**  
ATSC Converter Box

**USER MANUAL**



**DOLBY**  
DIGITAL

**SDTV**  
STANDARD DEFINITION TELEVISION



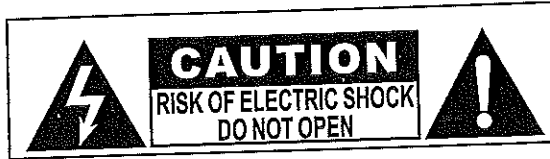
Product that have earned the ENERGY STAR® are designed to protect the environment through superior energy efficiency

## CONTENTS

1. Important Safety Instructions .....	02
2. Trademarks .....	04
3. Accessories .....	04
4. Before Operating .....	04
5. Quick Reference Control Operation .....	07
5-1. Front Panel .....	07
5-2. Rear Panel .....	07
5-3. Remote Control .....	07
5-4. Easy Setup For First Use .....	08
5-5. Antenna Setup .....	10
6. Basic Operation .....	11
6-1. Channel Scan .....	11
6-2. Channel Information .....	11
6-3. Change Viewing Channel .....	12
6-4. OSD Language .....	12
6-5. Closed Caption .....	12
6-6. Parental Control (V-CHIP) .....	13
6-7. Mute .....	18
6-8. Audio Menu .....	18
6-9. Screen Mode .....	19
6-10. Sleep Timer .....	19
7. Before Calling For Service .....	19
7-1. Quick Service Check List .....	19
8. General Specifications .....	20
9. Remote Controller Code .....	21
10. Limited Warranty .....	22

## ATSC Converter Box

### 1. IMPORTANT SAFETY INSTRUCTIONS



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric to persons.



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

#### Warning:

To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so, and do not expose this apparatus to rain or moisture.

#### Note:

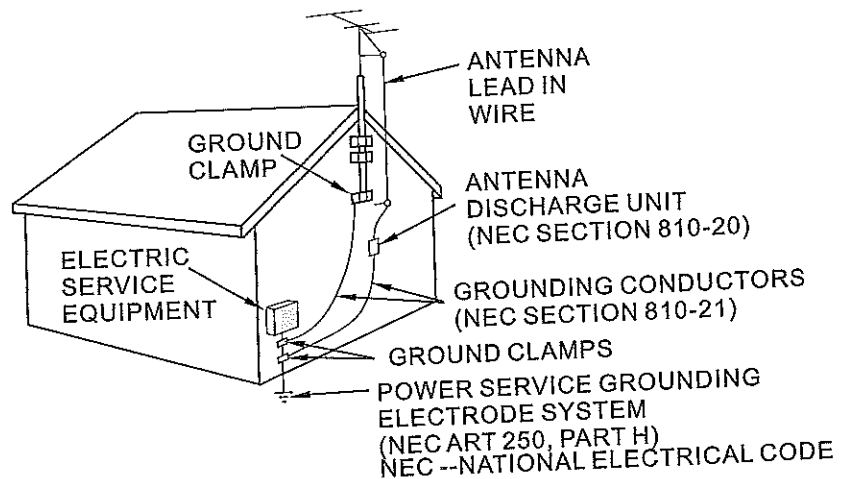
- ① Read these instructions.
- ② Keep these instructions.
- ③ Heed all warnings.
- ④ Follow all instructions.
- ⑤ Do not use this apparatus near water.
- ⑥ Clean only with dry cloth.
- ⑦ Do not block any ventilation openings. Install in accordance with the instructions.
- ⑧ Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- ⑨ Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet consult an electrician for replacement of the obsolete outlet.
- ⑩ Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- ⑪ Only use attachments/accessories specified by the manufacturer.
- ⑫ Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



## ATSC Converter Box

- ⑬ Unplug this apparatus during lightning storms or when unused for long periods of time.
- ⑭ Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as 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.
- ⑮ To Reduce the Risk of Fire or Electric Shock, Do not Expose This Appliance To Rain or Moisture.
- ⑯ Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, shall not be placed on the apparatus.  
The Shock Hazard Marking and Associated Graphical Symbol is provided on the back panel of unit.
- ⑰ Plug the adapter into AC110V outlet, Connect the supplied adapter in the slot of the unit marked "DC IN". If the unit will not used for a long time, remove the adapter from the outlet.  
Before connect the adapter and the unit, make sure that all the connections have been made.
- ⑱ If an outside antenna is connected to the device, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code provides information with respect to proper grounding of mast and supporting structure, grounding of the lead-in wire to antenna discharge unit. Size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Example of Antenna Grounding  
as per national electrical code



## ATSC Converter Box

### 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.

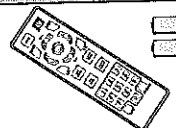
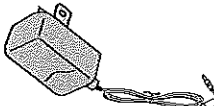


**WARNING:** FCC Regulations state that any unauthorized changes or modifications to this device not expressly approved by the manufacturer could void the user's authority to operate this device.

### 2. TRADEMARKS



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.

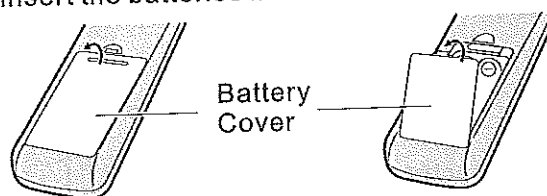
### 3. ACCESSORIES

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.



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

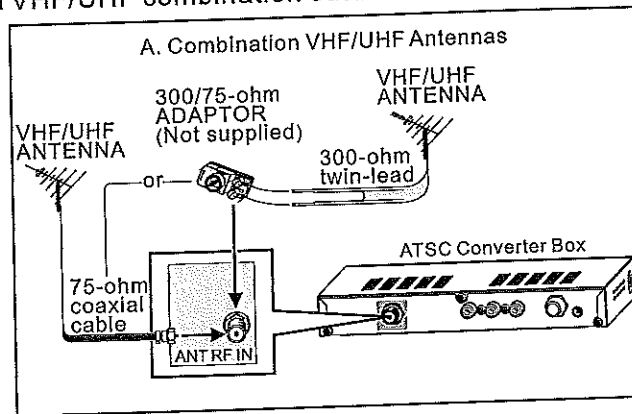
## ATSC Converter Box

### 4-2. Antenna Connections

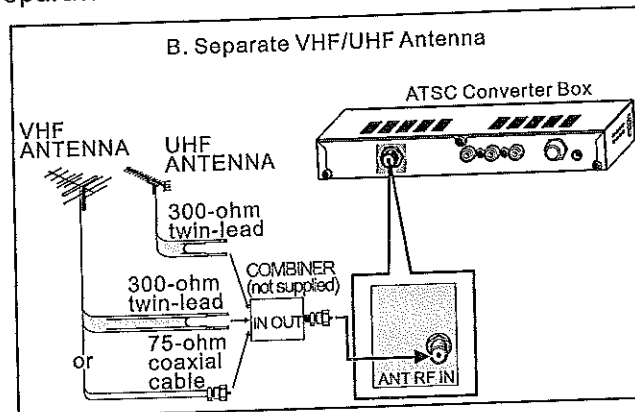
#### ① Outdoor Antenna Connection.

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

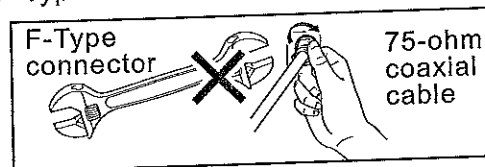
- Using a VHF/UHF combination outdoor antenna.



- Using separate VHF and UHF outdoor antenna.



Connect an outdoor antenna cable lead-in to F-Type terminal.  
(Notice: F-Type connector should be finger-tightened only.)

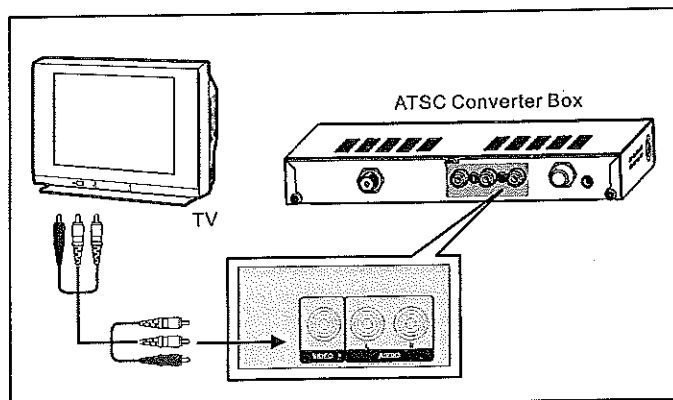


## ATSC Converter Box

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

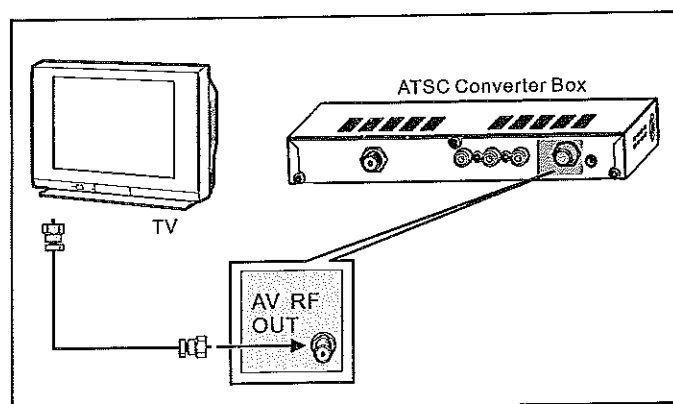
#### ① AV Cable Connection.

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).



#### ② RF 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.

## ATSC Converter Box

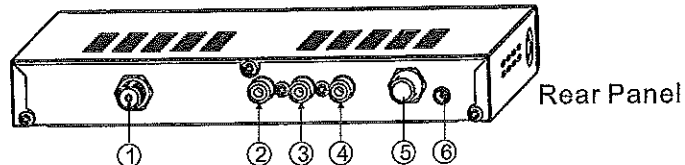
### 5. Quick Reference Control Operation

#### 5-1. 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.

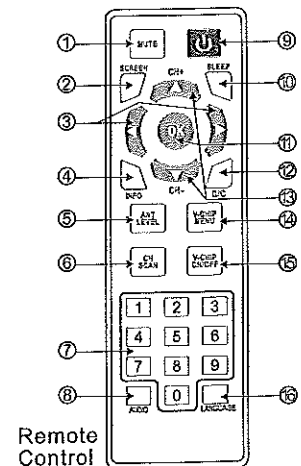
#### 5-2. Rear Panel



- 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.





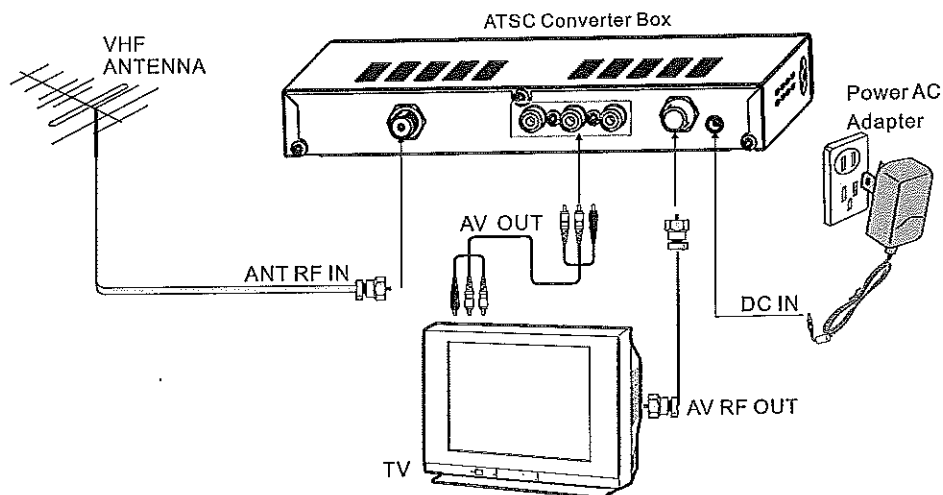
## ATSC Converter Box

- 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.



## ATSC Converter Box

- 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.

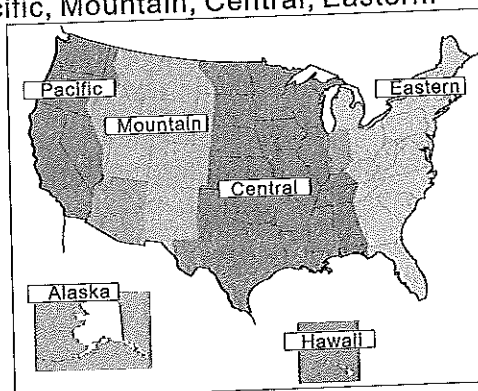


**Auto Scan**

Range 64.0-806.0MHz	
Frequency 79.00MHz	Ch No. 6
<div style="border: 1px solid black; width: 100px; height: 10px; margin-bottom: 5px;"></div> Found: 10%	

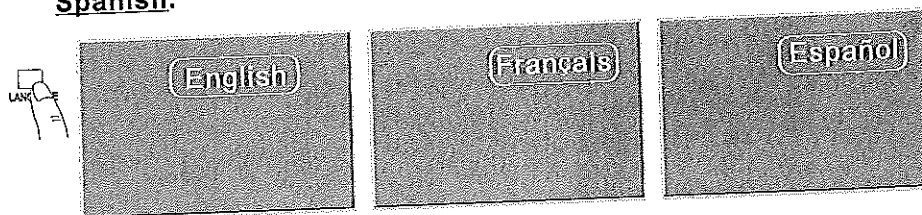
### Note:

- 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, Hawaii, Pacific, Mountain, Central, Eastern.



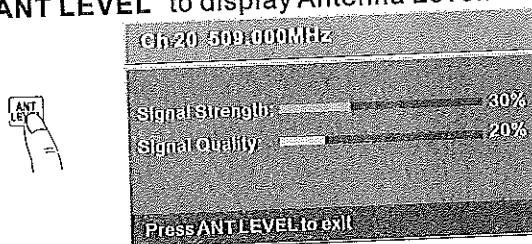
## ATSC Converter Box

- ⑧ Press "LANGUAGE" to select OSD language: **English, French, Spanish.**

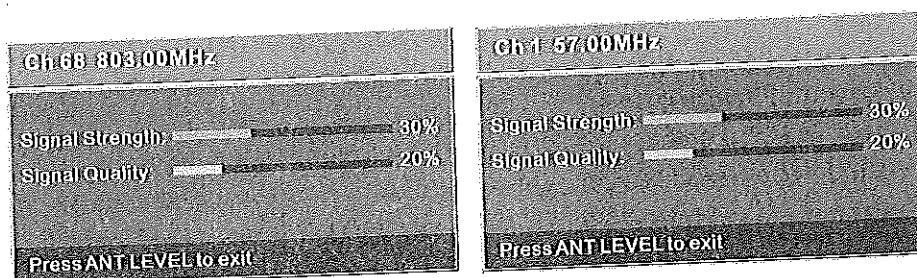


### 5-5. Antenna Setup

- 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**.

## ATSC Converter Box

### 6. Basic Operation

#### 6-1. Channel Scan

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



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

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

Auto Scan	
Range 54.0-806.0MHz	
Frequency 79.00MHz	Ch No. 5
<div style="border: 1px solid black; width: 100%; height: 10px; background: linear-gradient(to right, black 10%, white 10%);"></div>	
Found: 10%	

#### 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,      |                   |                        |

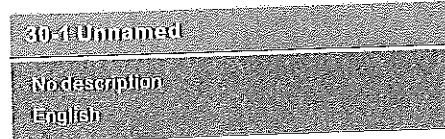


①	9.1	②	KCTS-DT	③	22:35	④	
⑤	22:30-23:00	⑥	Smart Travels Pacific	⑦		⑧	
⑨	English	⑩	480i 16:9 CC TV-Y				

## ATSC Converter Box

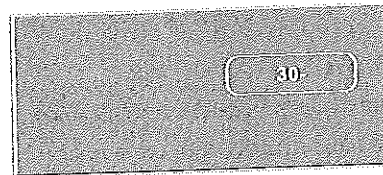
### 6-3. Select Program Channel

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

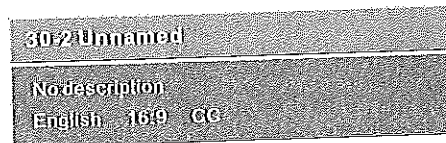


**Note:** It is only valid after scanning channels. (Please refer to "CH SCAN").

- ② Press "0-9" buttons to select the channel.



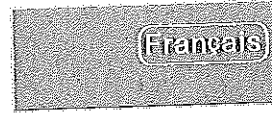
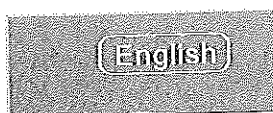
**Note:** 3 digit numbers need to select the channel,  
**Example:** Input "3" "0" "2" to select channel 30-2.



### 6-4. OSD Language

Press "LANGUAGE" to select the On Screen Display Language:

**English, French, Spanish.**

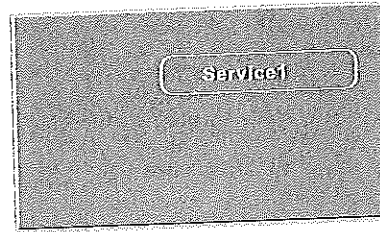


### 6-5. Closed Caption

- 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.

## ATSC Converter Box

- 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	

## ATSC Converter Box

**Parental Control**

TVPG ☐

MPAA ☒

Downloadable RRT ☒

New Password

Confirm Password

**MPAA**

G ☐

PG ☐

PG-13 ☐

R ☐

NC-17 ☐

X ☒

NR ☒

### • 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.

**Parental Control**

TVPG ☒

MPAA ☐

Downloadable RRT ☒

New Password

Confirm Password

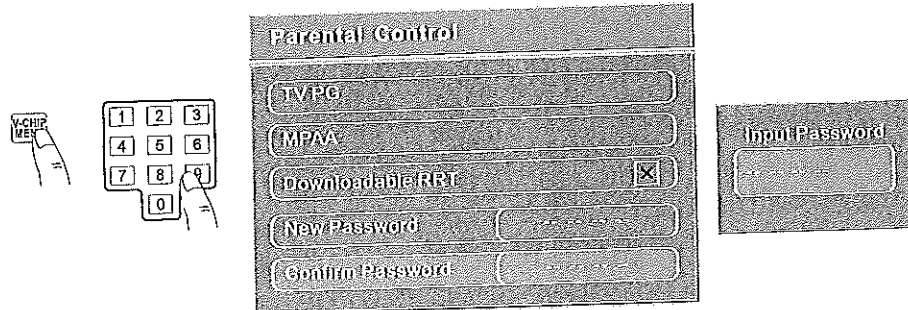
**TVPG**

	Age	FV	V	S	L	D
TV-Y	<input checked="" type="checkbox"/>					
TV-Y7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
TV-G	<input checked="" type="checkbox"/>					
TV-PG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TV-14	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TV-MA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

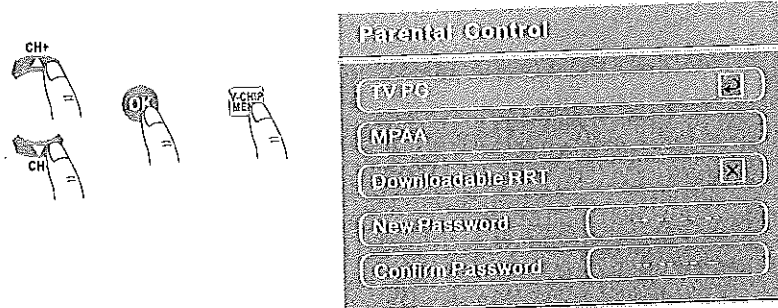
Allow All Block All

## ATSC Converter Box

- 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.



## ATSC Converter Box

CH+ CH-

**Parental Control**

TVPG ☐

MPAA ☐

Downloadable RRT ☒

New Password

Confirm Password

**TVPG**

Age FV V S L D

TV-Y ☐

TV-Y7 ☐ ☐

TV-G ☐

TV-PG ☐ ☐ ☐ ☐ ☐

TV-14 ☐ ☐ ☐ ☐ ☐

TV-MA ☐ ☐ ☐ ☐ ☐

OK V-CHIP MENU

**Parental Control**

TVPG ☐

MPAA ☒

Downloadable RRT ☒

New Password

Confirm Password

**MPAA**

G ☐

PG ☐

PG-13 ☐

R ☐

NC-17 ☐

X ☐

NR ☐

- 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.

CH+ CH-

**Parental Control**

TVPG ☐

MPAA ☐

Downloadable RRT ☒

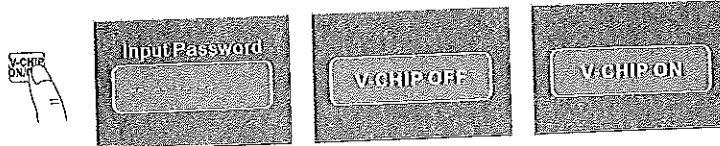
New Password

Confirm Password

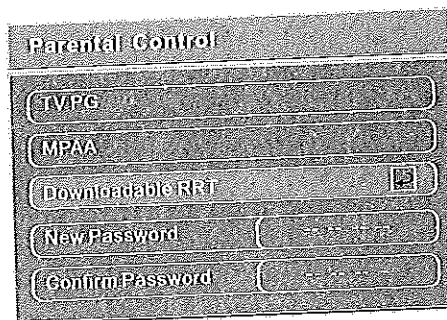
**Input Password**

## ATSC Converter Box

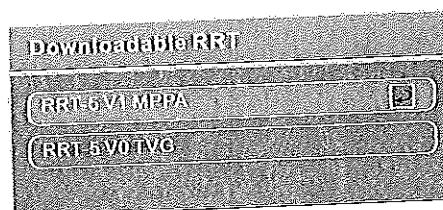
- ◆ While program exceeds the rating setting, screen will show "V-CHIP block", and video /audio will be blocked.
  - 1). Press "V-CHIP ON/OFF" to inactive the V-CHIP temporarily.  
The correct password is needed for it.
  - 2). If you turn the power on from off, the "V-CHIP block" will be activated again.



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

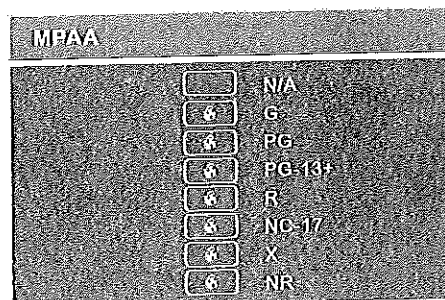


- Use "CH+/CH-" to Select "Downloadable RRT" and press "OK", it will show the all Dimensions of digital rating



## ATSC Converter Box

- 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

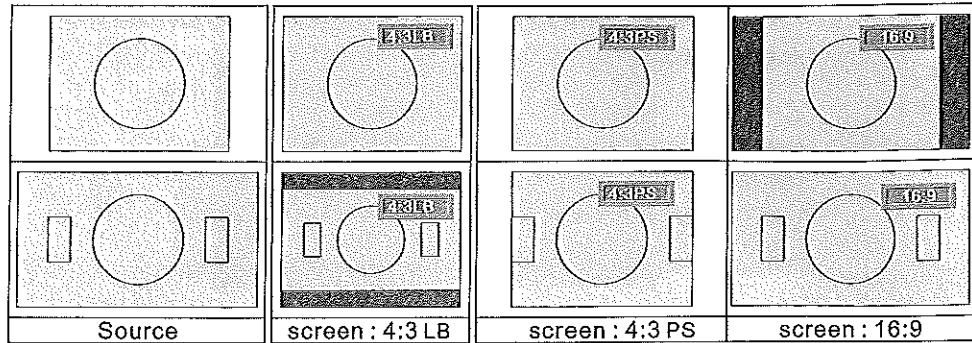
Press "AUDIO" to select the Audio Language: English, Spanish, French.



## ATSC Converter Box

### 6-9. SCREEN MODE

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

## ATSC Converter Box

- 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.

(No Signal)

### 8. General Specifications

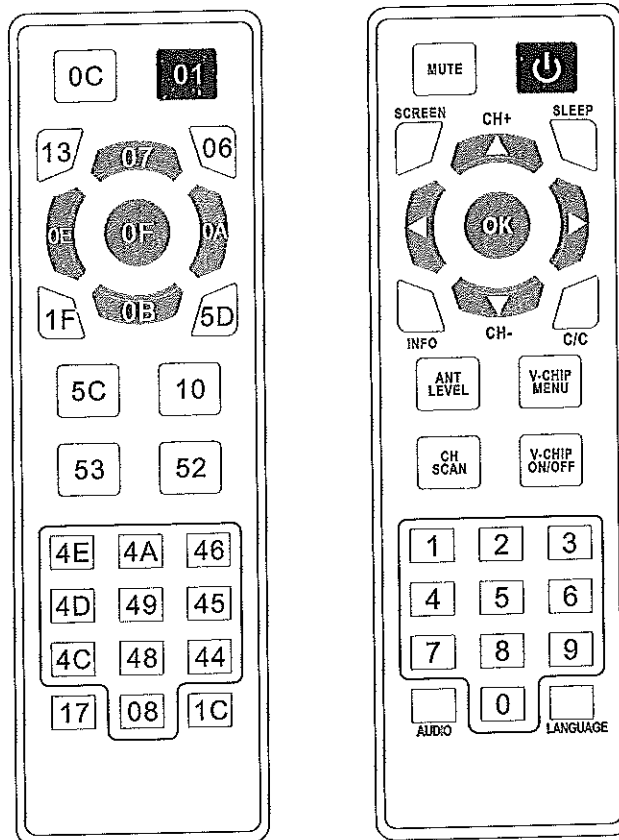
Model		FT-300A
Description		ATSC Coupon-Eligible Converter Box
IN/OUT JACK	RF IN	F-Type Jack for ATSC Antenna.
	Video	RCA Jack for Video output.
	Audio	2 RCA Jack for Stereo Audio output.
	RF OUT	F-type Jack for Modulated AV RF Out (NTSC CH3/4).
	DC IN	5V 1.4A.
ATSC Compatible		Band Width: 6MHz. Band: 54MHz-807MHz CH 2 ~ 69. Modulated Method: 8VSB. RF Sensitivity: -83 ~ -5dBm.
Audio Spec		Level: 1.2Vrms (1kHz). 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

## ATSC Converter Box

### 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.