Please, read this user manual prior to using this product for the first time.

Call for help... Toll Free Number ☏ 1-877-685-8443
Website www.casticonverter.com
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.

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 ACCOMPANYING THE APPLIANCE.

WARNING
TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

Apparatus should not be exposed to dripping or splashing and no object filled with liquids, such as vases, shall be placed on the apparatus.

WARNING: Do not install this equipment in a confined space such as a bookcase or similar unit.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT AND FULLY INSERT

ATTENTION: POUR ÉVITER LES CHOC ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LABORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU’AU FOND.

Where the main plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

The Marking Information is attached on the bottom of this product.

CAUTION: Any changes or modification in construction of this device which are not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

REGULATORY INFORMATION: FCC Part 15
This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the product is operated in a residential installation. This product generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
• Reorient or relocate the receiving antenna.
• Increase the separation between the product and receiver.
• Connect the product 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.
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 manufacturer's 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 are 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 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.
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.

**CAUTION: PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS IN THIS INSTALLATION AND OPERATING GUIDE AND THOSE MARKED ON THE UNIT. RETAIN THIS GUIDE FOR FUTURE REFERENCE.**

This set has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use, and servicing.
This unit does not contain any parts that can be repaired by the user.

**DO NOT REMOVE THE CABINET COVER, OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.**
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**INTRODUCTION – PRODUCT DESCRIPTION**

**FRONT PANEL**

- **POWER**
  Turns the Converter Box on or off.

- **CH UP (▲)**
  Move up the TV channel.

- **CH DOWN (▼)**
  Move down the TV channel.

- **REMOTE CONTROL SENSOR**
  Receives signals from Remote Controller.

- **POWER LED INDICATOR**
  Red light is displayed when the unit is turned off.
  Green light is displayed when the unit is turned on.

**REAR PANEL**

- **AC Power Code**
  Connect the power cord.

- **VIDEO OUTPUT**
  Connect to your TV or VCR for Video output.

- **AUDIO OUTPUT (L)**
  Connect to your TV or VCR for Audio(Left) output.

- **AUDIO OUTPUT (R)**
  Connect to your TV or VCR for Audio(Right) output.

- **RF OUT**
  Use to connect your TV using RF cable.
  *CAX-03 and CAX-04 have analog pass-through.*

  ~ Standby mode: Analog Pass-Through, Power on: RF Output (CH03/04)

- **ANTENNA IN**
  Connect the AIR antenna cable here.
<table>
<thead>
<tr>
<th><strong>TV POWER</strong></th>
<th>Turns on/off power of TV</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BOX POWER</strong></td>
<td>Turn on/off power of Converter Box.</td>
</tr>
<tr>
<td><strong>Number(0~9)</strong></td>
<td>Select channel or enter password.</td>
</tr>
<tr>
<td><strong>Dash(-)</strong></td>
<td>Used to enter a program number for multiple channels such as 1-1, 1-2, etc.</td>
</tr>
<tr>
<td><strong>GUIDE</strong></td>
<td>View Electronic Program Guide.</td>
</tr>
<tr>
<td><strong>VOL ▲</strong></td>
<td>Increase the sound level.</td>
</tr>
<tr>
<td><strong>VOL ▼</strong></td>
<td>Decrease the sound level.</td>
</tr>
<tr>
<td><strong>CAPTION</strong></td>
<td>Select closed caption: Off, CC, TEXT</td>
</tr>
<tr>
<td><strong>FLASHBK</strong></td>
<td>Go to the previous channel.</td>
</tr>
<tr>
<td><strong>CH ▲</strong></td>
<td>Move the TV channel up.</td>
</tr>
<tr>
<td><strong>CH ▼</strong></td>
<td>Move the TV channel down.</td>
</tr>
<tr>
<td><strong>PGM</strong></td>
<td>Program the remote controller to match your TV set.</td>
</tr>
<tr>
<td><strong>MUTE</strong></td>
<td>Switch the sound On or Off.</td>
</tr>
<tr>
<td><strong>◀ ▲ ▼ ▶</strong></td>
<td>Move between categories in MENU.</td>
</tr>
<tr>
<td><strong>ENTER</strong></td>
<td>Adjust the settings to your preference.</td>
</tr>
<tr>
<td></td>
<td>Display current channel and time in TV viewing.</td>
</tr>
<tr>
<td><strong>MENU</strong></td>
<td>Display the MENU or the previous menu screen that was displayed.</td>
</tr>
<tr>
<td><strong>EXIT</strong></td>
<td>Completely exit from the menus.</td>
</tr>
<tr>
<td><strong>INFO</strong></td>
<td>Display information about TV program on the screen.</td>
</tr>
<tr>
<td><strong>AUDIO</strong></td>
<td>Select available Multi tracks depending on the broadcast.</td>
</tr>
<tr>
<td></td>
<td>(Languages can be chosen only if they are included in the TV program.)</td>
</tr>
<tr>
<td><strong>RATIO</strong></td>
<td>Change the picture size.</td>
</tr>
<tr>
<td><strong>SIGNAL</strong></td>
<td>Display the digital signal strength.</td>
</tr>
<tr>
<td><strong>INPUT(TV)</strong></td>
<td>Select TV source (Tuner or AV input)</td>
</tr>
<tr>
<td><strong>CH03(TV)</strong></td>
<td>Select channel 3 of TV</td>
</tr>
<tr>
<td><strong>CH04(TV)</strong></td>
<td>Selects channel 4 of TV</td>
</tr>
</tbody>
</table>
Check that the following the Converter Box and accessories are included. If an accessory is missing, please contact the dealer where you purchased the product.

**Package contents**

- Converter Box
- Remote Controller
- Batteries
- RF cable
- User Manual
- Quick Start Guide

**Antenna connections**

1. Connect an antenna cable to the "ANTENNA IN" jack on the rear of the Converter Box.
2. Connect the "RF OUT" jack from the Converter Box to the "ANT IN" jack on your TV using the RF cable supplied with the Converter Box.

**Note**

- If you connect "RF OUT" of the Converter Box to ANT. IN of your TV, you can watch the video and the audio of the Converter Box on Ch.3 or Ch.4 of your TV. The RF output channels can be selected in output channel of menu-option. (Refer to page 15)

**CAX-03 and CAX-04 have analog pass-through.**
- These models are capable of passing through the analog signal to the TV set in standby mode.
**ANALOG TV (MONITOR) CONNECTIONS**

1. Connect an antenna cable to the "ANTENNA IN" jack on the rear of the Converter Box.
2. Connect the "R-AUDIO-L" jacks and "VIDEO" jack from the Converter Box to the "A/V IN" jacks on your TV using RCA-type cables.

**VCR CONNECTIONS**

1. Connect an antenna cable to the "ANTENNA IN" jack on the rear of the Converter Box.
2. Connect the "R-AUDIO-L" jacks and "VIDEO" jack from the Converter Box to the "A/V IN" jacks on your VCR using RCA-type cables.

**Note**

* The VCR will record the onscreen display onto the tape during recording if:
  - the channel is changed with CH (▲/▼)
  - the sound level is adjusted with VOL (▲/▼)
  - or by pressing ENTER, etc.

* The caption signal is recorded because the display format is set only 480i.
**Program the Remote Controller**

You can control TV sets of all major brands after programming the Converter Box remote controller with the PGM (Program) button.

1. Refer to the Program Code List (page 21 in this manual).
   Find the brand of your TV set and a 3-digit program code. If your TV set is not on the list, skip the rest of this section.

   **Program Code List**

<table>
<thead>
<tr>
<th>Maker(Brand)</th>
<th>Code List</th>
<th>Maker(Brand)</th>
<th>Code List</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admiral</td>
<td>072 081 160 161 096</td>
<td>Electronome</td>
<td>024 075 143</td>
</tr>
<tr>
<td>Advent</td>
<td>247</td>
<td>Emerson</td>
<td>005 020 043 048 076 096 155</td>
</tr>
<tr>
<td>Aiko</td>
<td>101</td>
<td>Fisher</td>
<td>004 051 143 151 153 154</td>
</tr>
<tr>
<td>Aka</td>
<td>006 146 248</td>
<td>Fujitsu</td>
<td>104 028 198 246</td>
</tr>
<tr>
<td>Alaron</td>
<td>028</td>
<td>Funai</td>
<td>028 043 052 249</td>
</tr>
<tr>
<td>Almark</td>
<td>112 143</td>
<td>Futuretech</td>
<td>043</td>
</tr>
</tbody>
</table>

2. Keep the PGM button pressed while entering the correct 3-digit program code with the Number (0~9) buttons. After entering the 3-digit program code release the PGM button.

3. Aim the remote controller toward your TV and press the TV POWER button on the remote controller to check if the TV responds properly. If there is no response from the TV set, try step 2 again with another program code. If your TV responds properly, the programming is completed.

**Turn on the Converter Box**

1. Connect the AC power cable of the Converter Box to suitable wall outlet.
2. Press POWER on the converter box or BOX POWER in the remote controller.
   The power indicator will turn green if power is on.
3. Press TV POWER of remote controller to turn on your TV
4. When the converter box is connected only to RF cable, if current channel of TV is not CH04 or CH03, press CH04 or CH03 of remote controller. *Initial RF output channel is CH04*
5. When the converter box is connected to RCA cables, if your TV is in Tuner mode, press INPUT of remote controller to switch to AV mode.


**MENU OPERATION - CHANNEL**

In the ‘MENU Operation’, there are several ways to customize the menu settings provided. Most menus consist of three levels to set up the options, but some require greater depth for the variety of settings. If you press **MENU**, only the first and second level of the menu system will appear on the TV screen. The third level can be displayed by pressing **ENTER** or ▶. If a menu has more than three levels, the pop-up dialogue box will be displayed as the fourth or fifth level. For navigating the menu levels, you will see ▶ on the right side of the menu label to help you go to the next level.

**To view and remove the Menu:**
Press **MENU** on the Remote Controller to display the menu. Press **MENU** again or press **EXIT** to return to TV viewing.

**Enter next level:**
Press **ENTER** or ▶ on the Remote Controller.

**Return to the previous level:**
Press **MENU** or ◄ on the Remote Controller.

### CHANNEL SCAN

Automatically finds all channels available through antenna or cable input. All of the active channels found from this scanning process will be stored in the channel list. You can check the list in the ‘Channel Edit’ menu.

1. Press **MENU**. The main menu will appear.
2. Press **ENTER** or ▼ to enter the sub-menu of CHANNEL menus. Use ▲/▼ to select ‘Channel Scan’.
3. Press **ENTER** or ▶ to start finding available channels. If you want to stop channel scan in the middle of the scanning process, press **ENTER**.
4. After the channel search is completed, the channel which has the lowest channel number will appear on the TV screen.
5. Press **MENU** or ◄ to return to the previous category or press **EXIT** to return to TV viewing.

※ If the Lock System is on, the ‘Channel Scan’ is locked. In order to access ‘Channel Scan’, you have to enter the correct password.

**Note**
- In case inactive or weak channels do not appear on the list, you can add the channel from the ‘Manual Scan’ menu.
- If a channel is removed from the memory, you can always tune to that channel directly by using the Number(0~9) buttons on the Remote Controller.

### CHANNEL ADD

Automatically finds any additional channel which was not found in ‘Channel Scan’ process.

1. Press **MENU**. The main menu will appear.
2. Press **ENTER** or ▼ to enter the sub-menu of CHANNEL menus. Use ▲/▼ to select ‘Channel Add’.
3. Press **ENTER** or ▶ to start finding available channels. If you want to stop channel scan in the middle of the scanning process, press **ENTER**.
4. After the channel search is completed, the channel which has the lowest channel number will appear on the TV screen.
5. Press **MENU** or ◄ to return to the previous category or press **EXIT** to return to TV viewing.

※ If the Lock System is on, the ‘Channel Add’ is locked. In order to access ‘Channel Add’, you have to enter the correct password.
**CHANNEL EDIT**

Add available channels or delete the channels from the channel list. The Channel list will appear on the screen and you will be able to see available channels.

1. Press **MENU**. The main menu will appear.
2. Press **ENTER** or ▼ to enter the sub-menu of CHANNEL menus. Use ▲/▼ to select ‘Channel Edit’.
3. Press **ENTER** or ▶ to view channel list on the right hand side of ‘Channel Edit’ on the screen.
   - **To move one by one:**
     Use ▲/▼ to move one step on the channel-editing menu.
   - **To move page by page:**
     Use CH▲ or CH▼ button to move to the next or previous page on the channel editing menu.
   - **To add or delete a channel:**
     Press **ENTER** to add or delete the channel on the channel editing menu.
4. Press **MENU** or ◄ to return to the previous category or press **EXIT** to return to TV viewing.

**Note**
- When a channel has been added, you are able to tune to the channel with the CH▲/▼ buttons.
- When a channel has been deleted, you must enter the channel number by using the Number(0~9) buttons to view the deleted channel. You will not be able to tune to the channel using the CH▲/▼ buttons.
- If a channel is deleted, the channel information will be displayed in grey color.

**MANUAL SCAN**

Add your favorite channels to the channel list or delete the channels from the channel list manually.

1. Press **MENU**. The main menu will appear.
2. Press **ENTER** or ▼ to enter the sub-menu of CHANNEL menus. Use ▲/▼ to select ‘Manual Scan’.
3. Press **ENTER** or ▶, and ‘Manual Scan’ menu will appear on the right hand side of ‘Manual Scan’ on the screen.
4. Use ▲/▼ to select channel.
   Press **ENTER** to add/delete the channel.
5. To add/delete additional channels in ‘Manual Scan’ menu, repeat steps above.
6. When you select the channel, you can see the quality of the signal being received. (You can use SIGNAL on the remote control to see the signal level during TV viewing.)
7. Press **MENU** or ◄ to return to the previous category or press **EXIT** to return to TV viewing.

※ If the Lock System is on, the ‘Manual Scan’ is locked. In order to access ‘Manual Scan’, you have to enter the correct password.
Enables the user to set up the time. Normally, your clock is set using signals transmitted by DTV stations. Choosing your time zone sets the current time automatically. But if the Ant In jack on the connection panel is connected to a cable service, the clock cannot be set manually.

1. Press MENU to display the on-screen menu.
2. Select the OPTION menu using ▲/▼ then press ENTER or ▼.
3. Use ▲/▼ to select ‘Clock’ then press ► or ENTER.
4. Use◄/► to set Time Zone (Eastern, Central, Mountain, Pacific, Alaska, Hawaii, New F.land or Atlantic)
5. Press MENU or◄ to return to the previous category or press EXIT to return to TV viewing.

**Note**
- There are cases where the TV station does not send, or sends wrong date or time information causing the Converter Box to set an incorrect time.

### Aspect Ratio

Selects the screen format. To view a picture with a wide (16:9) aspect ratio at 480i mode output format. You can choose Letter Box, Cropped, Squeezed, or Set By Program.

1. Press MENU to display the on-screen menu.
2. Select the OPTION menu using ▲/▼ then press ENTER or ▼.
3. Use ▲/▼ to select ‘Aspect Ratio’ then press ► or ENTER.
4. Use the ▲/▼ buttons to select the desired picture format.
   - (Set By Program, Letter Box, Cropped, Squeezed)
5. Press MENU or◄ to return to the previous category or press EXIT to return to TV viewing.

※ While watching TV, you can change the picture aspect ratio using RATIO on the Remote Control. Use the RATIO button on the Remote Control to change the wide mode in the following cycle: Set By Program, Letterbox, Cropped, Squeezed.

**Note**
- **Set By Program**
  Select the proper picture proportion to match the source's image.
- **Letter Box**
  Select this when you want to see the original wide format. Letter Box mode will shrink the picture to fill the screen, and blank panels will appear at the top and bottom of the screen.
- **Cropped**
  Select this when you want the entire screen to be filled. Left and right portion of the picture will be removed.
- **Squeezed**
  Select this when you want the entire screen to be filled. The picture will be squeezed from the ratio of 16:9 to the ratio of 4:3
Select the language of the menu.

1. Press MENU to view the on-screen menu.
2. Select the OPTION menu using ◀/▶ then press ENTER or ▼.
3. Use ▲/▼ to select ‘Language’ then press ▶ or ENTER.
4. Use ▲/▼ to select the desired language then press ENTER.
5. Press MENU or ◀ to return to the previous category or press EXIT to return to TV viewing.

Digital channels sometimes provide multiple audio tracks, often in a different languages. You can set a default audio language from the audio Language menu.

1. Press MENU to view the on-screen menu.
2. Select the OPTION menu using ◀/▶ then press ENTER or ▼.
3. Use ▲/▼ to select ‘Audio Language’ then press ▶ or ENTER.
4. Use ▲/▼ to select the desired language then press ENTER.
5. Press MENU or ◀ to return to the previous category or press EXIT to return to TV viewing.

※ If multiple audio tracks are available, the audio icon (_oid) appears on the Program Information display or Program Guide. You can select the language with the AUDIO button.

You can modify and configure how your caption will appear.

1. Press MENU to display the on-screen menu.
2. Select the OPTION menu using ◀/▶ then press ENTER or ▼.
3. Use ▲/▼ to select ‘Caption Select’ then press ▶ or ENTER.
4. Move between the options using ▲/▼ (ACC, DCC, DCC Service)
5. Select type of options using ◀/▶ then press ENTER.
   ACC (Off, CC1, CC2, CC3, CC4, Text1, Text2, Text3, Text4)
   DCC (Off, Standard, Custom)
   DCC Service
   (Service1, Service2, Service3, Service4, Service5, Service6)
6. Press MENU or ◀ to return to the previous category or press EXIT to return to TV viewing.

Analog Captions
Allows you to select mode for displaying Analog Caption Data. ( Analog Caption Service : CC 1-4 display program’s dialog and Text 1-4 display data service information.)

Note
- Off: Analog Caption is not displayed
- CC1 is the primary caption service that synchronizes the captioning language with the sound, used by most broadcasters. Captioning is displayed in the same language as the program’s dialog.
- CC 2 is the special non-synchronous caption service that does not need to be in sync with the sound and may provide simplified captioning, which is usually delayed.
- CC 3 serves as an alternate captioning service channel. Captioning is often a secondary language translation such as French, Spanish, simplified English or displayed at a slower rate.
- CC 4 is another special non-synchronous caption service that does not need to be in sync with the sound and may provide simplified captioning.
- Text 1-4 usually displays information on the lower portion of the screen and is used for a data service, generally not program related.
Digital Captions
Use caption feature defaults as provided by the program (Standard) or customize caption appearance (Custom) with the Custom menu options.

**Off** : Digital Caption is not displayed.

**Standard** : Caption will appear based on Default text provided by a broadcaster.

**Custom** : Caption will appear based on the customized text. And if this option is selected, the DCC Setup menu is activated.

**Note**
- If Digital and Analog Caption are received simultaneously, you can only select DTV Captions, analog captions will not appear.
- When DCC is “OFF”, Analog Caption (ACC) is available.
- Analog Captions will appear if they are provided by broadcaster.
- If available, press **CAPTION** button to select a analog caption type while viewing TV.

DCC SETUP

In Caption Select, if you select **Custom** option of digital caption, you can change font size, font type, text color, text opacity, background color, background opacity edge color, edge type.

1. Press **MENU** to view the on-screen menu.
2. Select the OPTION menu using ▲/▼ then press **ENTER** or ▼.
3. Use ▲/▼ to select ‘DCC Setup’ then press ► or **ENTER**.
4. Select the options using ▲/▼ and select data of options using ◀/▶ then press **ENTER**.
5. Press **MENU** or ◀ to return to the previous category or press **EXIT** to return to TV viewing.

**Note**
- **Font Size** : Selects the font size for captions
- **Font Type** : Selects the font type for captions
- **Text Color** : Selects the font color for captions
- **Text Opacity** : Selects the font opacity for captions
- **BG Color** : Selects the background color for captions
- **BG Opacity** : Selects the background opacity for captions
- **Edge Color** : Selects the edge color for captions
- **Edge Type** : Selects the edge type for captions.

SLEEP MODE

This function allows automatic switching from the On state to the Sleep mode after a period of time without user input.

1. Press **MENU** to display the on-screen menu.
2. Select the OPTION menu using ▲/▼ then press **ENTER** or ▼.
3. Use ▲/▼ to select ‘Sleep Mode’ then press ► or **ENTER**.
4. Select desired period of time using ▲/▼ then press **ENTER**.
5. Press **MENU** or ◀ to return to the previous category or press **EXIT** to return to TV viewing.

※ ‘Off’ option disables the “automatic switching to sleep mode” function.
※ Initial period of time is **4 hours**.
**OUTPUT CHANNEL**

You may select the TV channel for viewing the video and the audio of
the Converter Box on Ch.3 or Ch.4.

1. Press **MENU** to display the on-screen menu.
2. Select the **OPTION** menu using ◀/▶ then press **ENTER** or ▼.
3. Use ▲/▼ to select ‘Output Channel’ then press ► or ENTER.
4. Select desired RF out channel (Ch.3 or Ch.4) using ▲/▼ then press **ENTER**.
5. Press **MENU** or ◀ to return to the previous category or press **EXIT** to return to TV viewing.

* Initial output channel is Ch.4.

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**MENU OPERATION - LOCK**

Set up blocking schemes to block specific channels, ratings, and external viewing sources. Rating guidelines are
provided by broadcasting stations. Most TV programs and TV movies can be blocked by TV Rating and/or
Individual Categories. A password is required to gain access to this menu.

**Note**

- If you have forgotten your password: Key-in ‘7777’ and then change the password.
- If you have not entered a password yet: Key-in the ‘0000’ password using the Number(0-9) buttons
to create a personal 4-digit security password.
- If you have already entered a password: Key-in the 4-digit password using the Number(0-9) buttons to
confirm the personal 4-digit security password.
- The Rating system does not apply to news programs.

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**LOCK SYSTEM**

Activates or disables the blocking scheme you set up previously.

1. Press **MENU**. The main menu will appear.
2. Use ◀/▶ to select LOCK then press ▼ or **ENTER** button to move
to the second level.
3. Use ▲/▼ to select ‘Lock System’ then press ► or **ENTER**.
4. Use ▲/▼ to select an option (On or Off) then press **ENTER** button
to confirm your selection.
5. Press **MENU** or ◀ to return to the previous category or press **EXIT** to return to TV viewing.

**Note**

- When the Lock System is on, ‘Channel Scan’, ‘Channel Add’ and
‘Manual Scan’ of menu-channel is locked. In order to access
‘Channel Scan’, ‘Channel Add’ or ‘Manual Scan’, you have to enter
the correct password.
**Set Password**

Change the password by entering a new password twice.

1. Press **MENU**. The main menu will appear.
2. Use ▲/▼ to select **LOCK** then press ▼ or **ENTER** button to move to the second level.
3. Use ▲/▼ to select ‘**Set Password**’ then press ▼ or **ENTER**.
4. Enter the new 4-digit password.
5. Enter the same password again to confirm.
6. Press **MENU** or ◀ to return to the previous category or press **EXIT** to return to TV viewing.

**Block Channel**

Blocks any channel that you do not want to view or that you do not want your children to watch. If you select a blocked channel, a block screen with a pop-up box will appear. Block Channel can override Channel Edit menu settings.

1. Press **MENU**. The main menu will appear.
2. Use ▲/▼ to select **LOCK** then press ▼ or **ENTER** button to move to the second level.
3. Use ▲/▼ to select ‘**Block Channel**’ then press ▼ or **ENTER**.
   - The channel list menu will appear.
   - Use ▲/▼ to move between the channels.

   **To lock or unlock a channel:**
   - Use **ENTER** button to block or unblock the channel.
   - The ▼ mark will appear beside the station name indicating the blocked channel.
4. Repeat step 3 to block or unblock additional channels on the channel list menu.
5. Press **MENU** or ◀ to return to the previous category or press **EXIT** to return to TV viewing.

**TV Rating - Children**

This option prevents children from watching certain children’s TV programs according to the ratings limit set. The Rating- Children does not apply to other TV programs. Unless you block certain TV programs intended for mature audiences in the TV Rating- sub menu, your children can view those programs.

1. Press **MENU**. The main menu will appear.
2. Use ▲/▼ to select **LOCK** then press ▼ or **ENTER** button to move to the second level.
3. Use ▲/▼ to select ‘**TV Rating-Children**’ then press ▼ or **ENTER**.
4. Use ▲/▼ to select ‘Age’ or ‘Fantasy Violence’ then press ▼ or **ENTER** button.
   - **Age**: Selection applies regardless of content category of rating.
   - **Fantasy Violence**: Selection applies if TV programs include rating for Fantasy Violence.
5. Use ▲/▼ to select a rating then press **ENTER** to confirm your selection.
6. Press **MENU** or ◀ to return to the previous category or press **EXIT** to return to TV viewing.

**Note**

- **TV-Y**: All Children.
- **TV-Y7**: For children age 7 and older.
**TV rating - general**

Blocks TV programs that you and your family may not wish to watch, based on the rating scheme set.

1. Press MENU. The main menu appears.
2. Use 〈/〉 to select LOCK then press ▼ or ENTER button to move to the second level.
3. Use ▲/▼ to select 'TV Rating-General' then press ► or ENTER.
4. Use ▲/▼ to select 'Age', 'Dialogue', 'Language', 'Sex', or 'Violence' then press ► or ENTER.
   - **Age**: Selection applies regardless of content category rating.
   - **Dialogue**: Selection applies if TV programs have rating for Dialogue.
   - **Language**: Selection applies if TV programs have rating for Language.
   - **Sex**: Selection applies if TV programs have rating for Sex.
   - **Violence**: Selection applies if TV programs have rating for Violence.
5. Use ▲/▼ to select a rating then press ENTER to confirm your selection.
6. Press MENU or 〈 to return to the previous category or press EXIT to return to TV viewing.

**Note**
- TV-G : General Audience.
- TV-14 : Parents Strongly Cautioned.
- TV-MA : Mature Audience Only.

**Movie - rating**

Blocks movies according to the movie rating restrictions so children cannot view certain movies. You can set the ratings to block out all the movies with ratings above a specified level. Keep in mind that the movie ratings apply only to movies shown on TV, not TV programs such as soap operas.

1. Press MENU. The main menu will appear.
2. Use 〈/〉 to select LOCK then press ▼ or ENTER button to move to the second level.
3. Use ▲/▼ to select 'Movie-Rating' then press ► or ENTER.
4. Use ▲/▼ to select a rating then press ENTER to confirm your selection.
5. Press MENU or 〈 to return to the previous category or press EXIT to return to TV viewing.

**Note**
- The Rating system doesn’t apply to news programs.
- G (General Audiences) : GENERAL AUDIENCES, Suitable for all ages.
- PG : PARENTAL GUIDANCE SUGGESTED- Some material may not be suitable for children.
- PG-13 : PARENTS STRONGLY CAUTIONED- Some material may be inappropriate for children under 13.
- R (Restricted viewing) : RESTRICTED, No one 17 or under without parent or guardian admitted.
- NC-17 (Restricted Viewing) : No one 17 or under admitted.
- X (Hard Core Films) : Adults Only.
**Downloadable-RRT**

If the broadcasting signal has Region5 rating data, rating data is displayed in the Region Rating Table. The displayed data has ordinal rating format or categorical rating format. Based on the rating table, your TV's OSD (On Screen Display) may differ slightly from what is shown in this manual.

1. Follow steps 1-2 as shown above (Movie Rating).
2. Use ▲▼ to select 'Downloadable-RRT' then press ▶ or ENTER.
3. Use ▲▼ to select rating item then press ▶ or ENTER.
4. In Categorical rating use ENTER to select rating.
   In Ordinal rating use ▲▼ to select rating.
5. Press MENU or ◄ to return to the previous category or press EXIT to return to TV viewing.

**Note**
- This function operates only when converter box has received Region5 Rating data.

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**Electronic Program Guide**

The Electronic Program Guide contains schedule and program information of all channels. This guide also provide local over-the-air channel information including conventional digital channels. Use the Electronic Program Guide to view schedule and descriptive program information for the channels. The EPG supplies information, such as program name, start and end time of all available channels. In addition, the detailed information about the program is often available in the EPG. (The availability and the amount of program details will vary depending on the broadcaster.)

**To Display the Electronic Program Guide**
Press GUIDE on the Remote Controller.

**To Exit the Electronic Program Guide**
Press EXIT or GUIDE to return to the channel you were viewing.

**To view the Electronic Program Guide of other channels**
Use ◄/ ► on your Remote Controller to navigate the guide screen.

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**Channel Banner Displays**

The Channel Banner appears whenever you tune into a new channel or press ENTER while viewing a program.

1. Press ENTER while watching a program.
   The Channel Banner appears on the TV screen (channel number, station name, and current time).
2. Press ENTER to make the Banner disappear.

**Note**
- Station name and Current time are displayed only if they are provided by the broadcaster.
- If the channel is scrambled, you may not be able to see the program.

**The Channel Banner will contain the following information.**
- **Channel Number**: Displays current channel number
- **Station Name**: Displays the station name of the current channel
- **Time**: Displays the current time
- **NO SIGNAL**: Displays the NO SIGNAL icon when the channel is invalid or an antenna isn’t connected
- **CH BLOCKED**: Displays the CH BLOCKED icon when the channel is locked
- **Volume Mute**: Displays the Volume Mute icon when sound is off
**Program Information Displays**

The Program Information Display will appear if you press the **INFO** button on the Remote Controller while viewing a program.

1. Press **INFO** while watching a program: The Program Information will appear on the TV screen.
2. Press **INFO** or **ENTER** while the Program Information is displayed: The Program Information will disappear from the TV screen.

**Note**
- Station name and Current time are displayed only if they are provided by the broadcaster.
- The Channel Banner will contain the following information.
  a. **Program Title**: Indicates title of current program
  b. **Date**: Displays the current date
  c. **Start Time, End Time**: Displays the start time and end time for the current program
  d. **Time**: Shows current time
  e. **Channel Number**: Displays the current channel number
  f. **Station Name**: Displays the station name of the current channel
  g. **Extended Text Message Icon**: Indicates that there is an Extended Text Message available providing detailed description of the program
  h. **Multiple Audio Icon**: Channels sometimes provide multiple audio tracks, often in a different language. When multiple audio tracks are available, the Multiple Audio Icon will appear and you can select the audio tracks with the **AUDIO** button.
  i. **DTV Caption Icon**: Indicates that the current program contains Digital Closed Caption Data Service
  j. **Wide Icon**: Indicates that the current program is shown in wide picture format
  k. **Content Advisory Icon**: Content Advisory data is used for the parental guide control to block programs that are beyond pre-defined rating criteria set by users. This icon means that the current program contains content advisory data, and displays rating of the program
  l. **Program Details**: Displays program information

**Normal Operation**

**Volume Adjustment**

You may adjust the audio volume of the Converter Box.

**VOL ▲/▼ buttons (Remote Controller)**

Use **VOL ▲/▼** on the Remote Controller to adjust the sound level for analog audio output of the Converter Box.

**MUTE (Remote Controller)**

Press **MUTE** to turn off the volume for audio output of the Converter Box.
## SELECTING CHANNELS

You can select channels as described below.

**Number and Dash (-) buttons (Remote Controller)**

Use Number(0~9) and Dash (-) buttons to select a channel directly. The Dash (-) button is used to enter a program number for multiple channels such as 1-1, 1-2, etc.

![Channel Selection](channel_selection.png)

**FLASHBK button (Remote Controller)**

Press to return to the previous channel you viewed. For example, if the Converter Box is tuned to channel 54 and then you changed to channel 56, pressing FLASHBK will return to channel 54.

**CH ▲▼ buttons (Remote Controller or front panel)**

Use CH ▲▼ on the Remote Controller to cycle through the channels memorized in the Converter Box.

**Signal Strength**

Shows the signal strength bar for incoming signal to help you adjust the antenna to the correct position for your location. You can view the signal strength bar by pressing SIGNAL on the Remote Controller. And a beep sound will be heard.

![Signal Strength](signal_strength.png)

## Appendix

### Remote Controller Code Table

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### Troubleshooting

<table>
<thead>
<tr>
<th>Symptoms</th>
<th>Check Point</th>
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<tbody>
<tr>
<td>No picture &amp; No sound or Cannot turn on power</td>
<td>• Check whether the power is on</td>
</tr>
<tr>
<td></td>
<td>• Check if power cord is firmly connected to the product and the power outlet</td>
</tr>
<tr>
<td></td>
<td>• Test the wall power outlet, plug another product’s power cord into the outlet</td>
</tr>
<tr>
<td>Picture OK &amp; No sound</td>
<td>• Check the volume level of the TV and product</td>
</tr>
<tr>
<td></td>
<td>• Check the MUTE state of the TV and product</td>
</tr>
<tr>
<td></td>
<td>• Press the Audio button to change the audio type</td>
</tr>
<tr>
<td></td>
<td>• Check audio cables are correctly connected to devices</td>
</tr>
<tr>
<td>No picture</td>
<td>• Check the product in operation mode</td>
</tr>
<tr>
<td></td>
<td>• Check the channel is on air</td>
</tr>
<tr>
<td></td>
<td>• Check video cables are correctly connected to devices</td>
</tr>
<tr>
<td></td>
<td>• Check the input source setting of TV</td>
</tr>
<tr>
<td>No color, or wrong colors</td>
<td>• Check the connection between product and TV</td>
</tr>
<tr>
<td></td>
<td>For a 3-wire component connection, match the red, green, and blue cables from product to your TV</td>
</tr>
<tr>
<td>No OSD</td>
<td>• Check whether the video component cables are connected</td>
</tr>
<tr>
<td></td>
<td>If you want to display OSD, connect composite cable (Video Out) instead of video component cables.</td>
</tr>
<tr>
<td></td>
<td>• Check the OSD display option in setup menu</td>
</tr>
<tr>
<td>The Remote Controller doesn’t work</td>
<td>• Check to see if there is any object between the TV and the remote control causing obstruction</td>
</tr>
<tr>
<td></td>
<td>• To manipulate the product with remote controller, the remote controller’s emitting part should directly point towards the receiving part of product’s remote controller</td>
</tr>
<tr>
<td></td>
<td>• Check the batteries are installed with correct polarity</td>
</tr>
<tr>
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<td>• Install new batteries</td>
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### Product Specifications

#### General Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
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<tr>
<td>Broadcasting Standard</td>
<td>DTV (ATSC)</td>
</tr>
<tr>
<td>Demodulation Method</td>
<td>8-VSB (free channel only)</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>AC 120V~/50-60Hz</td>
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<tr>
<td>Power Consumption</td>
<td>8 Watts under/1 Watt under</td>
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<tr>
<td>Dimension (W x D x H)</td>
<td>180 x 171.4 x 38(mm)</td>
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<tr>
<td>Weight</td>
<td>1.1Kg</td>
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#### RF Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
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<tr>
<td>Tuning System Type</td>
<td>F/S</td>
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<tr>
<td>Band Coverage</td>
<td>DTV 2~69</td>
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<tr>
<td>Antenna</td>
<td>75-ohm external antenna terminal</td>
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<td>Input/Output</td>
<td>75-ohm F-Type Antenna in (1)</td>
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<td>75-ohm F-Type RF Out (1)</td>
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<td></td>
<td>Composite Video Out (1)</td>
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<tr>
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<td>Analog L/R Audio Out (2)</td>
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This limited warranty is provided by CAST Information Co., Ltd (CASTi) to the original purchaser and is limited to non-commercial use of the product.

**Labor & Parts Warranty**
CASTi products purchased in the United States are warranted to be free from defects in materials or workmanship for a period of 6 months from date of purchase. If the unit fails to conform to this warranty, we will service the product free of charge using new or refurbished parts and products, at CASTi’s sole discretion.

This warranty does not apply to products or parts that have been damaged due to abuse, misuse, accident (including acts of God), unauthorized alteration or modification, negligence, improper operation or maintenance, use in violation of instructions and precautions provided with the product, or if the product serial number is removed or changed.

**Packaging and shipment instruction**
Before sending the defective product for repair or replacement, please contact our Customer Support Center at 1-877-685-8443 (Operation hours: 9am~5pm Pacific Time) to obtain a RMA number. All returned products without the RMA number will be rejected.

You must retain the original sales receipt to provide proof of purchase.

1. When sending the defective product to our Customer Support Center, you must use the original carton box or a reasonable substitute packaging to prevent damage.
2. All accessories included with the original product package must be sent along with the main unit.
3. RMA number obtained from our Customer Support Center must be written on the mail package along with the return address.
4. All costs including transportation, shipping, or insurance costs relative to the return of the product is your responsibility.

All warranties implied by state law, including the implied warranties of merchantability and fitness for a particular purpose, are expressly limited to the duration of the limited warranties set forth above. With the exception of any warranties implied by state law as hereby limited, the foregoing warranty is exclusive and in lieu of all other warranties, agreements and similar obligations of manufacturer or seller with respect to the repair or replacement of any parts. In no event shall CASTi be liable for consequential or incidental damages.

No person, agent, distributor, dealer or company is authorized to change, modify or extend the terms of this warranty in any manner whatsoever.

This warranty gives you specific legal rights and you may also have other rights, which may vary, from state to state. Some states do not allow limitation on how long an implied warranty lasts, when an action may be brought, or the exclusion or limitation of incidental or consequential damages, so the above provisions may not apply to you.

**CUSTOMER SUPPORT CENTER**
For service and repair please call 1-877-685-8443 or visit our website www.casticonverter.com.