

CRAIG®

**DIGITAL TO ANALOG
BROADCAST CONVERTER
WITH REMOTE CONTROL**

Owner's Manual

PLEASE READ BEFORE OPERATING THIS EQUIPMENT.

Model: CVD508

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IMPORTANT SAFETY INSTRUCTIONS



CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.



DANGEROUS VOLTAGE:

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.



ATTENTION:

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.

FCC WARNING:

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

INFORMATION:

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 Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off 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 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

Before using the unit, be sure to read all operating instructions carefully. Please note that these are general precautions and may not pertain to your unit. For example, this unit may not have the capability to be connected to an outdoor antenna.

1. Read these instructions.

All the safety and operating instructions should be read before the product is operated.

2. Keep these instructions.

The safety and operating instructions should be retained for future reference.

3. Heed all warnings.

All warnings on the product and in the operating instructions should be adhered to.

4. Follow all instructions.

All operating and use instructions should be followed.

5. Do not use this apparatus near water.

Do not use this product near water and moisture, for example: near a bathtub, washbowl, kitchen sink or laundry tub; in a wet basement; or near a swimming pool.

6. Clean only with dry cloth.

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a dry cloth for cleaning.

7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

Slots and openings in the cabinet and in the back or bottom are provided for ventilation, to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should never be placed near or over a radiator or heat source. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

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 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

An appliance and cart combination should be moved with care. Quick stops, excessive force and uneven surfaces may cause the appliance and cart combination to overturn.

PORTABLE CART WARNING
(symbol provided by RETAC)



13. Unplug this apparatus during lightning storms or when unused for long periods of time.

To protect your product from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

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. Power source.

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For products intended to operate from battery power, or other source, refer to the operation instructions.

16. Power lines.

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

17. Overloading.

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

IMPORTANT SAFETY INSTRUCTIONS

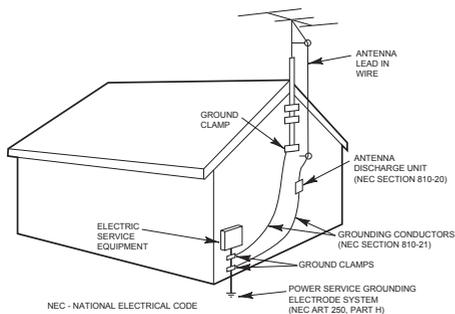
18. Object and liquid entry.

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short out parts that could result in fire or electric shock. Never spill or spray any type of liquid on the product.

19. Outdoor antenna grounding.

If an outside antenna is connected to the product, 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 Electric Code ANSI/NFPA 70 provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge product, size of grounding conductors, location of antenna-discharge product, connection to grounding electrodes and requirements for the grounding electrodes.

20. Service.



EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

21. Replacement parts.

When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original parts. Unauthorized substitutions may result in fire or electric shock or other hazards.

22. Safety check.

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operation condition.

23. Wall or ceiling mounting.

The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

24. Damage requiring service.

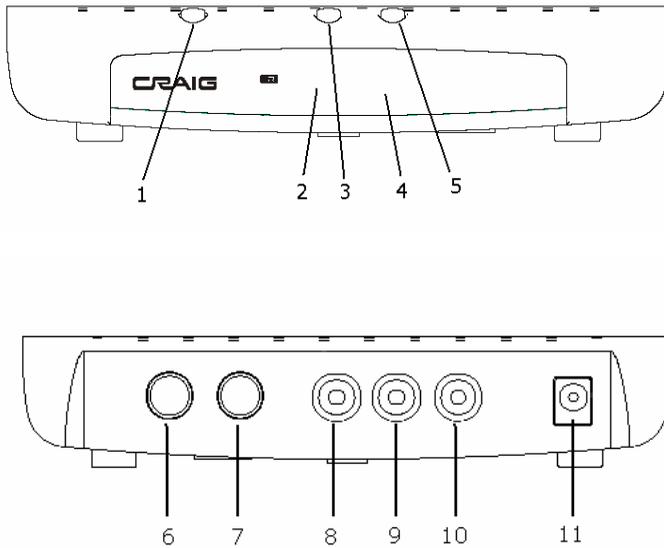
Unplug this product from the wall outlet and refer service to qualified service personnel under the following conditions.

- When the power-supply cord or plug is damaged.
- If liquid has been spilled or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an adjustment of other controls may result in damage and will require extensive work by a qualified technician to restore in the product to its normal operation.
- If the product has been dropped or the cabinet has been damaged.
- When the product exhibits a distinct change in performance-this indicates a need for service.

25. Note to CATV system installer.

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Location of Controls



- 1 STANDBY Switch
- 2 POWER ON Indicator
- 3 CHANNEL UP Button
- 4 STANDBY mode Indicator
- 5 CHANNEL DOWN Button
- 6 RF OUT Jack
- 7 RF IN Jack
- 8 AUDIO R Jack
- 9 AUDIO L Jack
- 10 VIDEO OUT Jack
- 11 DC 12V IN Jack

Remote Control

POWER

POWER ON/STANDBY the unit.

MUTE

Toggle between normal & mute the audio.

0-9 Numerical keys

Select the channel directly by entering its number.

CC

Close Caption selection.

EPG

Electronic Program Guide button. Display the simple TV program guide.

SIGNAL

Display the received signal strength.

-

Auxiliary select channel.

OSD

Display the program information box in the screen

ASPECT

Change the display aspect ratio.



Move the cursor up/down for menu option.



Move the cursor left/right for menu option.

ENTER/OK

Enter and confirm the data in the menu system.

MENU

Open up the menu or return to the previous menu.

EXIT

Exit the menu or return to the previous menu.

AUDIO

Change the Audio.

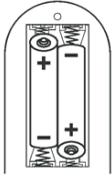
VOL+/VOL-

Adjust the volume level.

CH+/CH-

Change the channels.





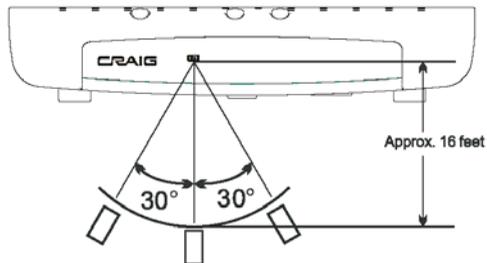
1. Slide the tap and lifting the battery compartment cover.
2. Insert 2 x "AA" size batteries into the compartment as the polarity marking inside the battery compartment.
3. Close the battery compartment cover.

Battery Precautions

Follow these precautions when using batteries in this device:

1. Use only the size and type of batteries specified.
2. Be sure to follow the correct polarity when installing the batteries as indicated in the battery compartment. Reversed batteries may cause damage to the device.
3. Do not mix different types of batteries together (e.g. Alkaline and Carbon-zinc) or old batteries with fresh ones.
4. If the batteries in the device are consumed or the device is not to be used for a long period of time, remove the batteries to prevent damage or injury from possible battery leakage.
5. Do not try to recharge batteries not intended to be recharged; they can overheat and rupture. (Follow battery manufacturer's directions.)
6. Do not dispose of batteries in fire, batteries may explode or leak.

EFFECTIVE DISTANCE OF THE REMOTE CONTROL TRANSMITTER

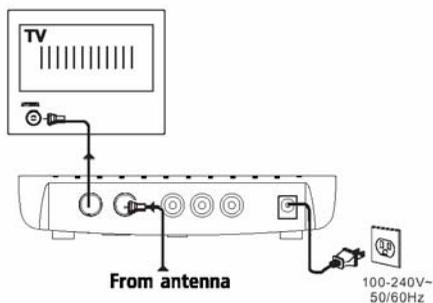


NOTES:

When there is an obstacle between the unit and the transmitter, the transmitter may not operate.

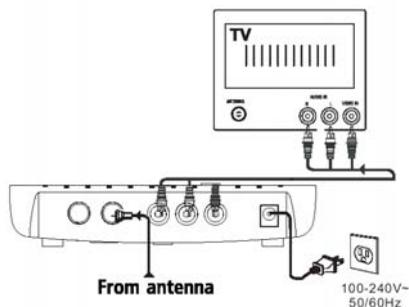
When direct sunlight, an incandescent lamp, fluorescent lamp or any other strong light shines on the Remote Sensor of the unit, the remote operation may be unstable.

Connecting the Converter Box to your TV with RF Jack



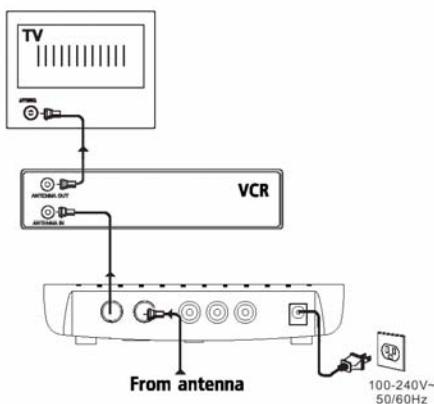
1. Connect your existing antenna cable to the RF IN of the Converter Box.
2. Connect the supplied RF coaxial cable from the RF OUT of the Converter Box to the antenna jack of the TV set.
3. Connect the AC/DC adaptor of Converter Box to the suitable wall outlet. Insert the small plug of adaptor into the DC 12V IN jack on the rear of the unit. Insert the AC/DC adaptor into any convenient having 100-240V~AC, 50/60Hz household outlet in vertical or horizontal direction.

Connecting the Converter Box to your TV with AV Sockets



1. Connect your existing antenna cable to the RF IN of the Converter Box.
2. Connect the Audio/Video cables (not supplied) from the AUDIO/VIDEO jacks (white, red, yellow) of the Converter Box to the Audio/Video IN jacks of the TV set.
3. Connect the AC/DC adaptor of Converter Box to the suitable wall outlet. Insert the small plug of adaptor into the DC 12V IN jack on the rear of the unit. Insert the AC/DC adaptor into any convenient having 100-240V~AC, 50/60Hz household outlet in vertical or horizontal direction.

Connecting the Converter Box to your VCR

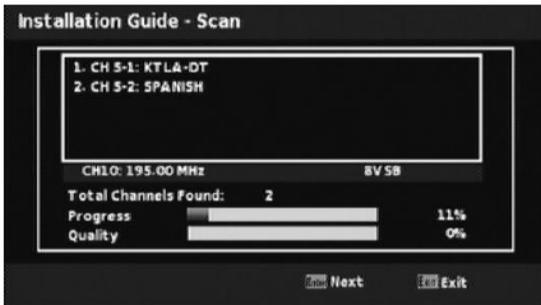
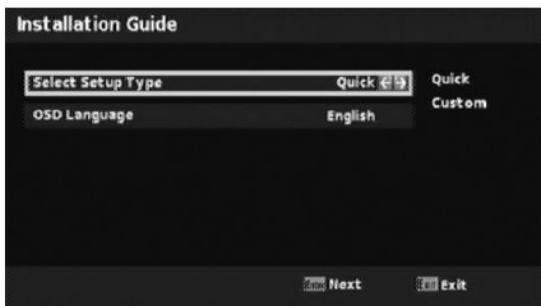


1. Connect your existing antenna cable to the RF IN of the Converter Box.
2. Connect the supplied RF coaxial cable from the RF OUT of the Converter Box to the antenna IN jack of the VCR.
3. Connect the other RF coaxial cable (not included, you may be used the one supplied from the VCR) from the antenna OUT jack of VCR to the antenna jack of the TV set.
4. Connect the AC/DC adaptor of Converter Box to the suitable wall outlet. Insert the small plug of adaptor into the DC 12V IN jack on the rear of the unit. Insert the AC/DC adaptor into any convenient having 100-240V~AC, 50/60Hz household outlet in vertical or horizontal direction.

Install Guide

When the system is first use or user reset the set, the install guide will be displayed.

User can follow guide to set some parameter and scan the channel.



BASIC FUNCTIONS

1. Volume Control

- Press the MUTE button to turn to silence mode.



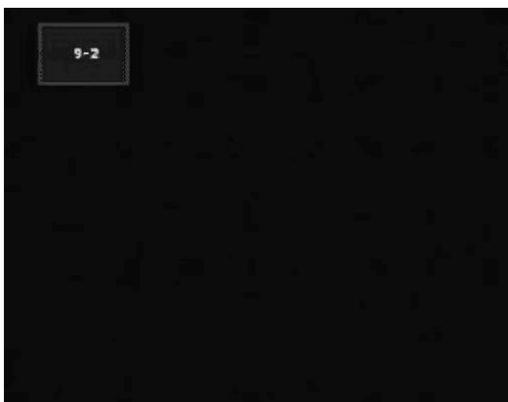
- Press the MUTE button again or VOL+/VOL- buttons in order to cancel the mute function.
- Press the VOL+/VOL- buttons to adjust the volume level.



2. Select Channel

- Press "CH+/CH-" to select the channel
- Press "0-9" and "-" buttons to select the channel.

Example : Input "9" "-" "2" to select channel 9-2.



3. Signal Strength

- Press SIGNAL button to display the strength of reception signal.
- Press EXIT or SIGNAL buttons again to turn off the displayed signal.



4. Program Information

Info Bar

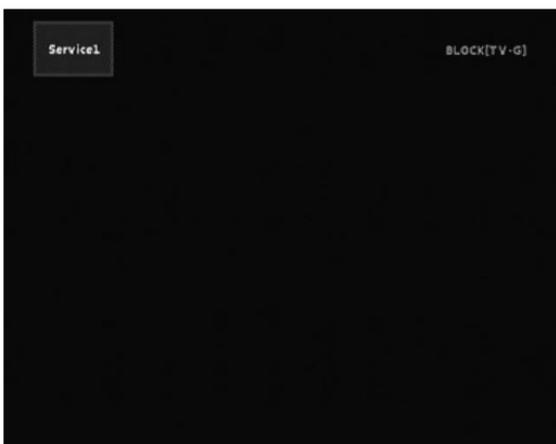
Press OSD button to display the current broadcasting program information, including:

- Channel Number
- Broadcast Station
- Program Name
- V-Chip Rating
- Audio Service Type
- Rating Info
- Resolution
- Display Format
- Close Caption
- Current Time and Date
- Hour of Current Program



5. Closed Caption

- 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.
- Not all the programs and videos offer closed caption.
- Press "C.C" to get the "Closed Caption" service:
Off -> Service1 -> Service2 -> Service3 -> Service4 -> Service5 -> Service6
-> CC1 -> CC2 -> CC3 -> CC4 -> TT1 -> TT2 -> TT3 -> TT4 -> Off

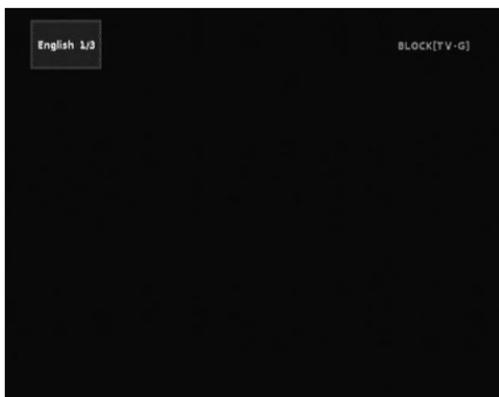


6. Audio Mode

Use to select output audio language.

Note: This function only applicable to the broadcasting program with Multi-language.

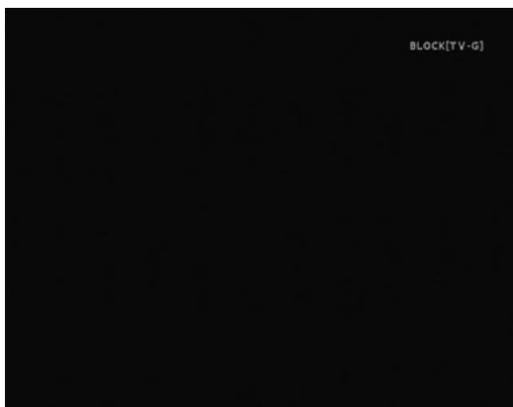
Press AUDIO button to change desired audio language.



7. TV Rating

Use to block those broadcasting program with violence, sex, not suitable for children.
Use MENU to select rating accordingly.

Following would be shown after the program is blocked.

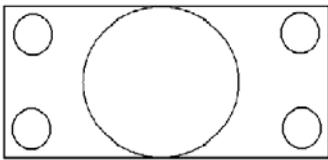
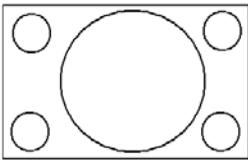
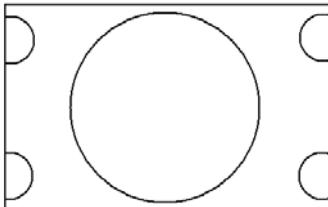
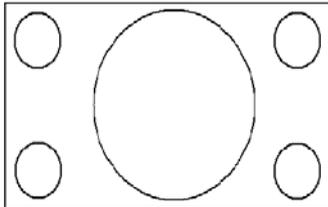
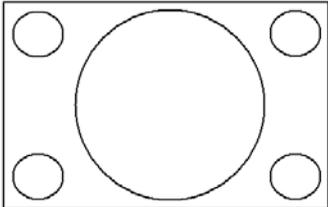
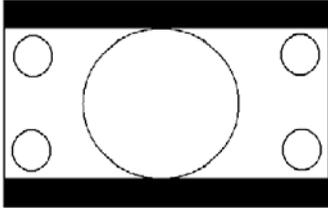


8. Aspect

Press ASPECT button to change the display screen among.

- Center
- Full
- Letter

Note: This function will be available on the 16:9 broadcasting ONLY. If it is 4:3 broadcasting, the screen will not any change.

	16:9 Broadcasting	4:3 Broadcasting
Source Signal		
Center		
Full		
Letter		

MAIN MENU

After installing your antenna system and DIGITAL CONVERTER BOX with appropriate connectors.

Plug in the AC/DC adaptor and switch ON the DIGITAL CONVERTER BOX.

Press the MENU button to bring up the main menu. The main menu consists of 3 sub-menus. The following on screen display appear:



1. Apps

Items in Apps are "Simple Guide"

Simple Guide lists the followed programs' simple information in current channel.



2. Channel

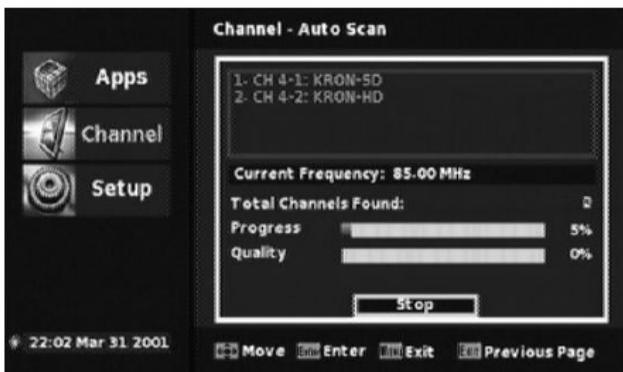
Items in channel are "Auto Scan" and "Manual Scan"



2.1 Auto Scan

Press "▲▼" to focus "Auto Scan", Press "ENTER" to scan ATSC program channels. It may take you several minutes.

Press "OK" or "MENU" to stop auto scan and watch the first channel (only available after auto-scan is done).



2.2 Manual Scan

Press "▲▼" to focus "Manual Scan",

Press "◀▶" to select channel wanted

Press "OK" to make a scan on selected channel.



3. Setup

Items in setup are "Screen Setting", "System Setting", "Parent Control", "Closed Caption" Time Zone" and "Restore Setting".

In the sub-menu, user can set screen, OSD language, audio language, power save mode, RF output, parental control, closed caption and time zone. And user reset the system to restore setting.



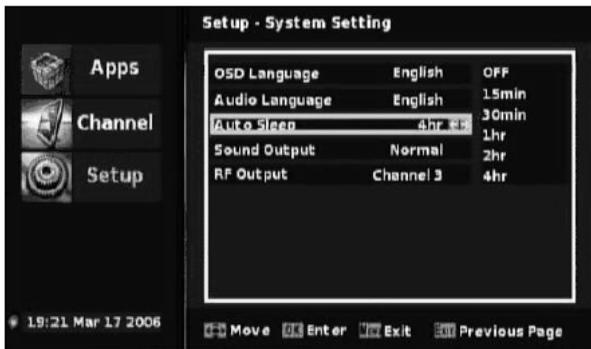
3.1 Screen Setting

Press “◀▶” to select the display screen from FULL, LETTER and CENTER.



3.2 System Setting

- Select OSD Language
Press "▲/▼" to focus "OSD Language",
Press "◀/▶" to select the On Screen Language : **English, Spanish, French**
- Select Audio Language
Press "▲/▼" to focus "Audio Language",
Press "◀/▶" to select the Audio Language : **English, Spanish, French**
- Set Sleep Timer
Press "▲/▼" to focus "Power Save Mode",
Press "◀/▶" to change the Sleep Timer : **OFF, 15MIN, 30MIN, 1HR, 2HR, 4HR**
- Set Sound Output
Press "▲/▼" to focus "Sound Output",
Press "◀/▶" to change the Sound Output : **Normal, Left, Right, Mixed**
- Set RF Output Channel
Press "▲/▼" to focus "RF Output",
Press "◀/▶" to change the RF Output Channel : **channel3, channel4**



3.3 Parental Control

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.

① There are two modes of TV program restriction : **USA, Canada**

- **USA Group**

Restriction of TV program 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			
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.

•**Canada Group**

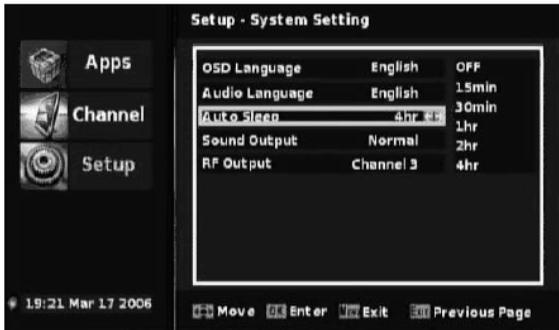
Restriction of TV program includes two characters that contain information about English rating and French rating. They are restricted by age.

English Rating		
Age Based	C	Programing intended for children under age 8
	8+	Programming generally considered acceptable for children 8 years and over to watch on their own
	G	General Audience
	PG	Parental Guidance
	14+	Programming contains themes or content which may not be suitable for viewers under the age of 14
	18+	Adult
	E	Exempt

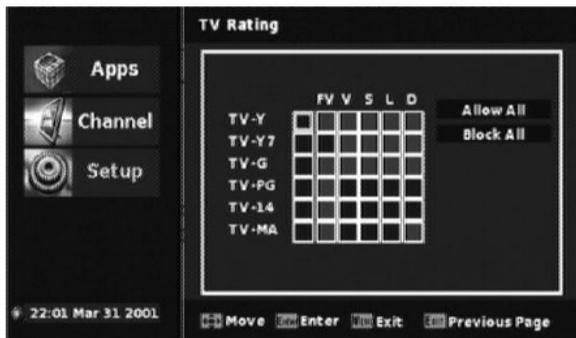
French Rating		
Age Based	G	General
	8+	8+ General – Not recommended for young children
	13+	Programming may not be suitable for children under the age of 13
	16+	Programming is not suitable for children under the age of 16
	18+	Programming restricted to adults
	E	Exempt

2 How to set V-CHIP

- Enter Parental Control.
- Need to input password by press 0-9" (**default is 1 2 3 4**)
- Press "▲/▼" to focus Lock System, and press "◀/▶" to open or close Parental Control.



- Press "▲/▼" to focus Country, and press "◀/▶" to select country : USA, Canada.
- Select Rating Control, and press "ENTER" access the Rating Control screen.
- Select TV Rating or MPAA Rating in USA Country, and press "OK" access Rating screen wanted.





- Select English Rating or French Rating in Canada Country, and press "OK" access Rating screen wanted.





- Press "▲/▼" to select the rating and press "OK" to block the rating. The higher rating will be blocked automatically.

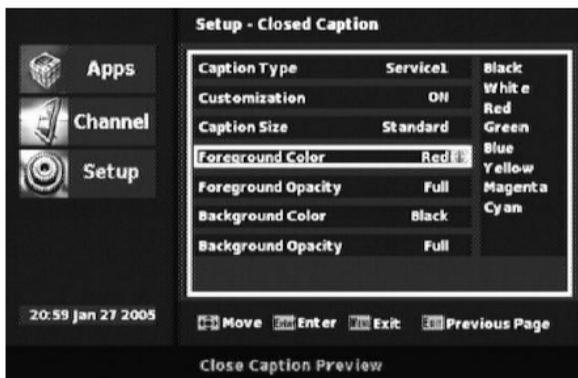
3. Change Password

Press "▲/▼" to select "Change Password" to modify the parental control password.
Please don't forget the password you have set up.

3.4 Closed Caption

Select Closed Caption, and press "ENTER", it will show the content of Closed Caption.

Press "▲/▼" to focus items, and press "◀/▶" to setup the attributes of closed caption wanted. All changes can only be reflected on Service1 setting.



3.5 Time Zone

Timer item provides user to setup daylight saving, time zone and timer. Time zone setting will influence display time in menu.

Press "▲/▼" to focus items, and press "◀/▶" to setup.



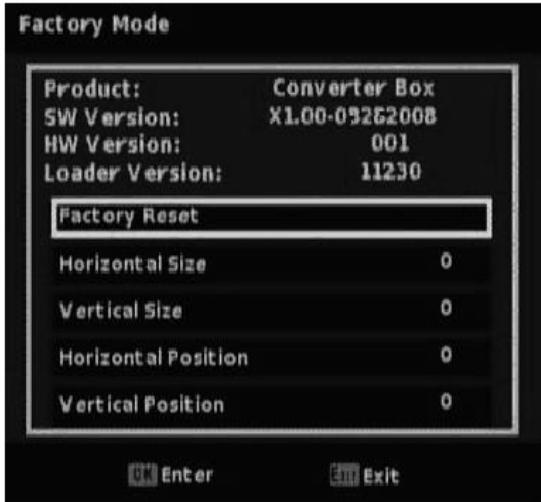
3.6 Restore Setting

User can use restore setting to reset system or reset all default setting



3.7 Factory Mode

If we turn on Menu, press "1591" can enter the factory mode.



Watching the Normal TV (NTSC) stations

- To watching the normal TV (NTSC) stations, turn OFF the Converter Box by press the STANDBY button on the unit or POWER button on remote control. When the Converter Box I Power OFF (Standby) mode. The raw normal analog (NTSC) TV signals will transmit to the TV through the Converter Box. You can watch those normal TV stations as usual.
- When the Converter Box in Power ON mode. Only the converted Digital TV signals can transmit to the TV through the Converter Box.

Warning : If the AC/DC adaptor of the Converter Box failure, no any TV signals can be received by the TV through the Converter Box.

More Information

Troubleshooting tips

Unit does not work

Unplug the AC/DC adaptor and plug it again.

No picture on the TV screen

Make sure the converter box is turned ON.

Make sure the connections between the converter box and TV are properly done.

Choose different channels or video inputs on the TV set until the picture appears.

No sound

Make sure the connections between the converter box and TV are properly done.

Make sure the TV sound is not muted.

Remote control does not work

Make sure the batteries are inserted correctly.

Replace the batteries if they are exhausted.

Remove any obstacles between the remote control and the converter box.

Cannot watch a bilingual TV program in its secondary language.

Make sure you have correctly selected the audio settings. Refer to AV settings in the main menu.

The Converter Box has turned OFF suddenly.

Check if POWER SAVER is activated in the main menu. It is set to 4 hours by default.

Weak signal or channel not available

Try to reposition of antenna. If the signal is still weak, a more powerful antenna may be required to boost reception for the Digital TV signal.

Technical Specifications

Power Supply : AC/DC adaptor (Input : AC 100-240V~50/60Hz, 0.2A ; Output : DC
12V, 0.8A)

RF Freq. Range : 57MHz 863MHz

RF Channel Range : CH2 CH69

RF Input/Output Impedance : 75 Ohms

RF Output Channel : CH3 / CH4, selectable system

Input : HD-ATSC, SD-ATSC and NTSC

Output : NTSC

Video Output Impedance : 75 Ohms

Specifications are subject to change without notice.

LIMITED WARRANTY

Craig warrants this product to be free from manufacturing defects in material and workmanship under normal use for a period of 90 days from date of purchase. If service is required, please return the product to the store where it was purchased for exchange; or, pack the unit in the original packing material with all accessories if applicable, a copy of your sales receipt and a Cashier's check or Money Order for \$15.00 (to cover shipping and handling costs) payable to Craig Electronics International Ltd. Ship your product freight pre-paid. Your unit will be repaired, replaced or a refund will be forwarded to you within four weeks of receipt of your unit. Please ship your unit to:

Craig Electronics International Ltd.
1160 NW 163 Drive
Miami, FL 33169

This warranty is void if the product has been: a) Used in a commercial application or rental. b) Damaged through misuse, negligence, or abuse. c) Modified or repaired by anyone other than an authorized Craig service center. d) Damaged because it is improperly connected to any other equipment.

Note: This warranty does not cover: a) Ordinary adjustments as outlined in the Owner's Manual which can be performed by the customer. b) Damage to equipment not properly connected to the product. c) Any cost incurred in shipping the product for repair. d) Damage to the product not used in the USA.

This warranty is not transferable and only applies to the original purchase. Any implied warranties, including the warranty of merchantability, are limited in duration to the period of this expressed warranty and no warranty whether expressed or implied shall apply to the product thereafter.

Under no circumstance shall Craig be liable for any loss or consequential damage arising out of the use of this product. This warranty gives specific legal rights. However, you may have other rights which may vary from state to state. Some states do not allow limitations on implied warranties or exclusion of consequential damage. Therefore, these restrictions may not apply to you.

To Obtain Service on your Product
email: service@craigelectronics.com