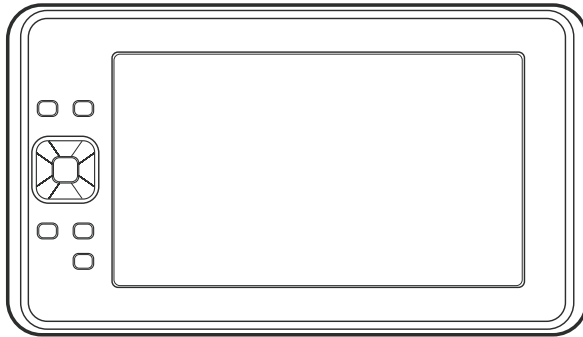


# RCA

User Manual

RTV86073



Innovative DTV Solutions, Inc.,  
Santa Fe Springs, CA90670

Read these instruction book before using your new product for the first time.

# Table of Contents

Table of Contents .....	1
Safety Precautions .....	2
Important Safety Instructions .....	3
Introduction .....	4
Safety Information .....	5
Remote Control .....	6
Built-in Rechargeable Battery Management .....	7
Front and Rear Panel Illustration .....	8
Getting Started .....	9
Picture Mode .....	11
Audio Mode .....	11
Timer Menu .....	12
Setup Menu .....	12
V-Chip Menu .....	13
Channel Menu .....	17
Service & Support .....	18
Specifications .....	18

## Safety Precautions



The lightning flash with an arrowhead symbol, within the 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 cause an electric shock.



The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in this owner's manual.



**WARNING:** 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 APPLIANCE TO RAIN OR MOISTURE. DO NOT PLACE OBJECTS FILLED WITH LIQUIDS ON OR NEAR THIS UNIT.



**WARNING:** SHOULD ANY TROUBLE OCCUR, DISCONNECT THE AC POWER ADAPTER AND REFER SERVICING TO A QUALIFIED TECHNICIAN.

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.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of 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.

Shielded cables must be used with this unit to ensure compliance with the Class B FCC limit.

**WARNING:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

**WARNING:** The batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

**WARNING:** Never place heavy or sharp objects on the LCD panel or frame.

**CAUTION:** Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

**WARNING:** The excessive sound pressure from earphones and headphones can cause hearing loss.

# Important Safety Instructions

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 a dry cloth.
7. Do not block the 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 groundin 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 a 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.



# Introduction

Thank you for purchasing this product which has been designed and manufactured to give you many years of trouble-free service.

## About This User Guide

This user guide contains all the information you need to know about how to setup and watch free off the air channels using your Portable TV.

## Accessories In the Box

Remove your Portable TV carefully from the box, and remove the packaging from each part.

## You will find the following items:

- Portable TV
- Remote Control (CR2025 battery included)
- User Manual
- Magnetic base antenna
- Power adapter



Look out for this symbol. It indicates useful and important tips.

If the AC/DC adapter is connected while the TV is powered on, it will supply the unit with power. Note: The battery can only be recharged when the unit switch to OFF position.

Warning: Change or modifications to this unit not expressly approved by the part responsible for compliance could void the user's authority to operate the Equipment.



## NOT FOR MOBILE USE

Will not receive TV signal in moving vehicle  
ATSC TV signals are intended for stationary  
uses only

## Safety Information

Do not expose the Portable TV to dripping or splashing and not place around any objects filled with liquids, such as vases.

The AC/DC adaptor is used as the disconnect device.  
The AC/DC adaptor of apparatus should not be obstructed OR should be easily accessed during intended use.  
To be completely disconnect the power input, the AC/DC adaptor of apparatus shall be disconnected from the mains.

Always remember to remove the AC/DC adaptor from the main socket before disconnecting the power lead from the left side of the unit.

### Safety is Important



To ensure your safety and the safety of others, please ensure you read the Safety Instructions before you operate this product.  
Keep this information in a safe place for future reference.  
Please read all the safety information before use.

### Safety Considerations

- Position the cables so that they cannot be walked on or pinched by items placed on or against them.
- Do not use the Portable TV in humid or damp conditions.
- Do not allow the Portable TV to get wet.
- Do not expose the Portable TV to dripping or splashing.
- Do not place water filled objects, such as vases around the Portable TV.
- Do not have open flame sources, such as candles around the Portable TV.

### Cleaning

- ALWAYS unplug the Portable TV before you clean it.
- Do not use liquid or aerosol cleaners.
- Clean the Portable TV with a soft, damp (not wet) cloth.

### Ventilation

- The slots and openings on the Portable TV are for ventilation.
- Do not cover or block them as it may cause overheating.
- NEVER let children push anything into the holes or slots on the case.

### Servicing

- There are no user serviceable parts in this Portable TV.
- When servicing, refer to qualified service personnel.
- Consult your dealer if you are ever in doubt about the installation, operation or safety of this unit.

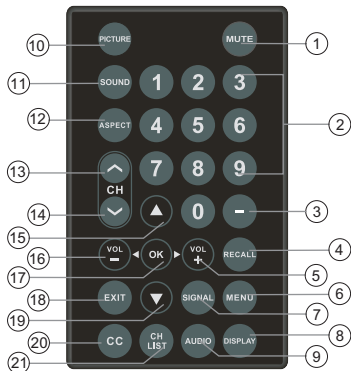
### Battery Disposal

- Please ensure battery is disposed of safely.
- Never dispose of battery in the fire or with household waste.
- Check with your local authority for disposal regulations.

# Remote Control

## Remote Button Function:

- 1) **MUTE:**  
Disables or enables sound.
- 2) **NUMBER BUTTONS:**  
Numeric buttons to select desired channel.
- 3) **- :**  
Numeric link symbol to select desired subchannel.
- 4) **RECALL:**  
Recalls last channel.
- 5) **VOL +:**  
Navigates (Right) the menu screens or adjusts the volume in non-menu state.
- 6) **MENU:**  
Displays TV menu or returns to previous menu.
- 7) **SIGNAL:**  
Display DTV signal strength.
- 8) **DISPLAY:**  
Displays/Removes program information.
- 9) **AUDIO:**  
Switches audio mode.
- 10) **PICTURE:**  
Adjusts Picture mode.
- 11) **SOUND:**  
Adjusts Sound mode.
- 12) **ASPECT:**  
Adjusts aspect mode.
- 13) **CH ^:**  
Changes to next channel up.
- 14) **CH v:**  
Changes to next channel down.
- 15) **▲**  
Navigates (Up) the menu screens or changes to next channel up.
- 16) **VOL -:**  
Navigates (Left) the menu screens or adjusts the volume in non-menu state.
- 17) **OK:**  
Confirms selection.
- 18) **EXIT:**  
Exits menu.
- 19) **▼**  
Navigates (Down) the menu screens or changes to next channel down.
- 20) **CC:**  
Enables/Disables CC function.
- 21) **CH LIST:**  
Displays channel list.

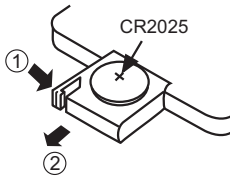




## Using the Remote Control

Point the remote control at the remote sensor in order for the player to function correctly. The remote will function to approximately 21" from the remote sensor at an angle of approximately 30° in each direction.

Note: Directing the remote sensor toward any light source, such as direct sunlight, may cause the unit to malfunction. Do not spill water or put wet items on the remote control. Never disassemble the remote control.



### HOW TO REPLACE THE BATTERY

STEP 1: Pressing towards on the rigid area of the battery cover.

STEP 2: Pull the battery tray out.

#### Caution:

Incorrect use of the battery may cause leaks, corrosion, or explosions.

- Be sure to place the battery in the correct direction.
- It is dangerous to charge/heat/open or short-circuit the battery.
- Do not leave dead or expired battery inside the remote.
- Remove the battery when not using the remote control for a long period of time.
- When the operating range is reduced, replace the battery with new, fresh ones.
- If leakage from the battery occurs, wipe the battery liquid from the battery compartment, then replace.

## Built-in Rechargeable Battery Management

Built-in rechargeable Lithium Polymer battery, which can provide about 100 min of operation depending on the usage conditions.

This portable TV uses a smart battery management system inside which can support low battery detection.

- 1) If the battery voltage falls below a specific value, the unit will enter the low battery mode, displaying a flashing low battery icon in the OSD, indicating the user needs to recharge the TV immediately.
- 2) If the AC/DC adapter is connected while the TV is powered on, it will supply the unit with power.

**Note: Battery can only be recharged when unit switch to off position.**

- 3) If the TV is kept running on low battery without using AC/DC adapter, the TV will shut down after a short time to protect the battery from depletion.

### BATTERY CAUTION

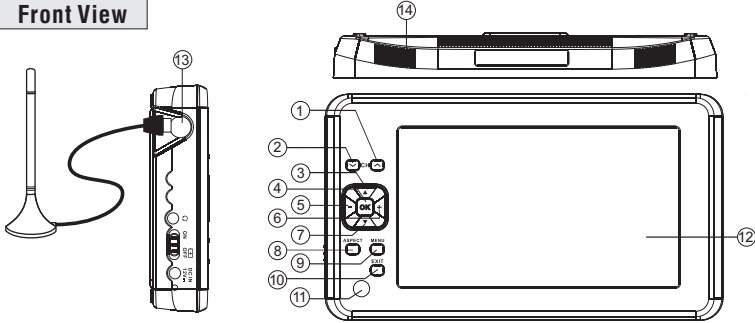
- Do not store or use this portable TV in extremely hot or cold environments. This product works best in a temperature range from 32°F to 95°F. Storage or operation outside this temperature range, especially above 95°F can significantly and irreparably degrade the performance of the lithium polymer battery.
- Do not store this device in the sun or in a hot car, such as the glove box.





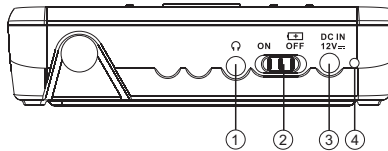
## Front and Rear panel illustration

### Front View



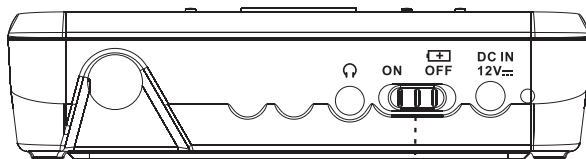
- 1) **CH ^**: Selects the next channel up.
- 2) **CH v**: Selects the next channel down.
- 3) **UP**: Navigates (Up) the menu screens or changes to next channel up.
- 4) **OK**: Confirms a selection within a menu.
- 5) **VOL -**: Navigates (Left) the menu screens or adjusts the volume when in non-menu mode.
- 6) **VOL +**: Navigates (Right) the menu screens or adjusts the volume when in non-menu mode.
- 7) **DOWN**: Navigates (Down) the menu screens or changes to next channel down.
- 8) **ASPECT**: Changes display mode.
- 9) **MENU**: Opens the main menu window or returns to previous menu.
- 10) **EXIT**: Exits menu.
- 11) **REMOTE CONTROL SENSOR**: Receives the signal from the remote control. (No shown on product)
- 12) **LCD screen**
- 13) **Antenna input**: Connects to an external RF signal.
- 14) **Speaker Left/Right**: The speaker.

### Left View



- 1) **EARPHONE JACK**: Outputs analog audio L/R signal to earphone.
- 2) **POWER SWITCH**: System on/off (switch should be in off position when charging).
- 3) **DC IN JACK**: AC-DC adaptor input, the voltage range is 12V.
- 4) **CHARGE INDICATOR**: The system is charging when the red LED is lit, Will turn green when fully charged.

## Getting Started



Switch the button to ON position to power on the system

Note: Battery can only be recharged when unit switch to off position.

### Switching on the first time


- 1) Connect the antenna to the antenna jack on the left side of the unit.  
Please ensure you have the antenna securely attached to the jack.
- 2) Connect the power adaptor to the DC IN 12V jack on the left side of the unit.
- 3) Switch on the portable LCD TV using the power switch on the left side of the unit.
- 4) Press the MENU button and select the rightmost icon-channel menu (use the VOL+ button).



## Getting Started

- 5) Use the DOWN navigation button to select the TV source and then select Air or CATV.
- 6) Select the Auto Scan or Auto Scan Add CH option and press the RIGHT/VOL+ button to start auto search. (It will search for all available channels in your area)



- 7) After completing the Auto Scan, use the channel  button or numeric buttons (remote control only) to select a TV channel.



- The Auto Scan feature will perform a fresh scan, erasing previously scanned channels. The Auto Scan Add CH feature will perform a scan and add any channels found to those previously scanned. Auto Scan Add CH is very useful if you want to scan (and retain) channels found when the TV is used in different locations.



- For good reception, place the antenna as close as possible to a window of your house, and as far away as possible from the portable TV.
- Don't place the antenna near other machines/appliances (such as motors, computers, switching power, TVs, power amplifiers, speakers... etc), since these machines/appliances can cause interferences to the antenna.



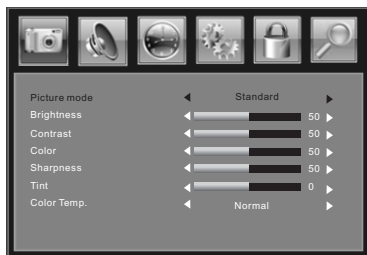
- **To conserve power while the TV is not in use, the power switch on the left side should be turned to the OFF position.**

## 1) PICTURE MODE

The first item of the Main MENU is the PICTURE MODE.

You can adjust the contrast, brightness, etc.

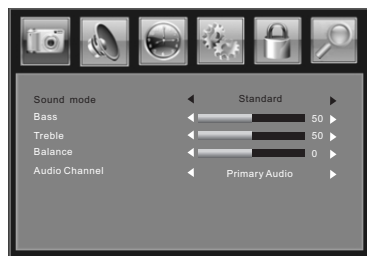
Press ▼▲ to select items in the menu, press ◀▶ (VOL - /VOL+) to adjust items, press MENU to exit.



## 2) AUDIO MODE

The second item of the Main MENU is the SOUND MODE.

Press ▼▲ to select items in the menu, press ◀▶ to adjust items, press MENU to exit.



### 3) TIMER MENU

The third item of the Main MENU is the TIMER MENU.

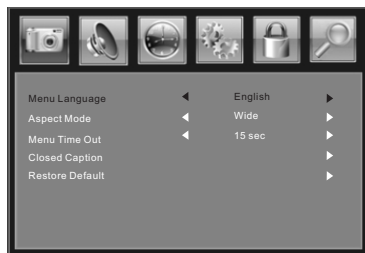
Press ▼▲ to select items in the menu, press ◀▶ to adjust items, press MENU to exit.



### 4) SETUP MENU

1) The fourth item of the Main MENU is the SETUP MENU for system setup.

Press ▼▲ to select items in the menu, press ◀▶ to adjust items, press MENU to exit.



Note:

Restore Default: Reset all the settings to default values.

2) Closed Caption: Toggles on/off .

Press ▼▲ button to select Closed Caption ,Press ► button, the screen will display:



## 5) V-CHIP MENU

The fifth item of the MENU is the V-CHIP MENU for setting up Parental Control.

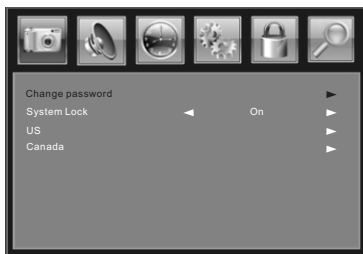
Press ▼▲ to select items in the menu, press ◀▶ to adjust items, press MENU to exit.

Parental control: Input the password, it will go into the Parental Control menu.

The product's default password is 0000. Note, if you change the password, and later forget your password, you can to unlock to Parental Control by using 8888.



5.1) Input the correct password (using your remote control), the screen will display:





1) Change Password: Press ► button, the screen will display:



- 2) Enter Old Password: Input the old password.
- 3) Enter New password: Input the new password.
- 4) Confirm password: Input the new password again.

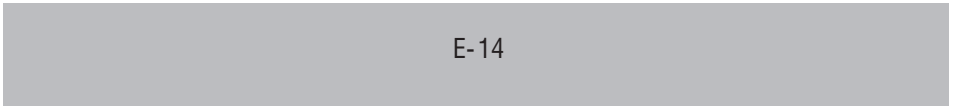
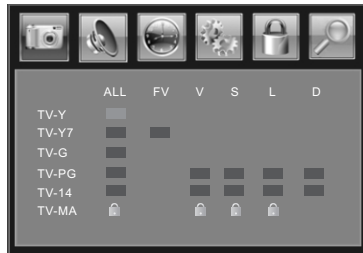
**5.2) V-CHIP switch:**

When the System Lock is ON, the options below can be adjusted.

**5.3) US:** Press ► button, the screen will display:



1) TV: Press ► button, the screen will display as follow:





Rating Content		Content				
		FV (Fantasy violence)	V (Violence)	S (Sexual situation)	L (Adult language)	D (Sexually suggestive dialog)
Suggested age	TV-Y (All children)					
	TV-Y7 (Direct to order children)	X				
	TV-G (General audience)					
	TV-PG (Parental Guidance suggested)		X	X	X	X
	TV-14 (Parents strongly cautioned)		X	X	X	X
	TV-MA (Mature audience only)		X	X	X	

And use the OK button to switch lock/unlock the Parental Control feature.

2) MPAA: switch the movie-rating control level; N/A, G, PG, PG-13, R, NC-17, X.

Rating		Description
Age	G	General audiences, All Ages admitted
	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	Restrict. Under 17 requires accompanying parent or adult guardian(age varies in some jurisdictions)
	NC-17	No one 17 and under admitted.
	X	X is an order rating that is unified with NC-17 but may be encoded in the data of order movies.

5.4) Canada: Press ► button, the screen will display:





1) Canadian-English: switch the english rating control level: E,C,C8+,G,PG,14+,18+.

Rating	Description
Age	E Exempt: Includes news, sports, documents and other information programming: talk shows, music videos, and variety programming.
	C Children: Intended for younger children under the age of 8. Pays careful attention to themes that could threaten their sense of security and well-being.
	C8+ Children over 8 years old: Contains no portrayal of violence as the preferred, acceptable, or only way to resolve conflict; nor encourage children to imitate dangerous acts which they may see on the screen.
	G General: Considered acceptable for all age groups, Appropriate viewing for the entire family, contains very little violence, physical, verbal or emotional.
	PG Parental Guidance: Intended for a general audience, but may not be suitable for younger children (under the age of 8) because it could contain controversial themes or issues.
	14+ Over 14 Years: Could contain themes where violence is one of the dominant elements of the storyline. But it must be integral to the development of plot or character. Language usage could be profane and nudity present within the context of theme.
	18+ Adults: Intended for viewers 18 years and older and might contain depictions of violence, which while related to the development of plot, character or themes, are intended for adult viewing. Could contain graphic language and portrayals of nudity.

2) Canadian-French: switch the French-rating control level: E, G,8ANS+,13ANS+,16ANS+,18ANS+.

Rating	Description
Age	E Exempt programming
	G General :All ages and children, contains minimal direct violence, but may be integrated into the plot in a humorous or unrealistic manner.
	8ans+ General but unadvisable for young children :May be viewed by a wide public audience, but could contain scenes disturbing to children under 8 who cannot distinguish between imaginary and real situations. Recommended for viewing with parents.
	13ans+ Over 13 years: Could contain scenes of frequent violence and tense violence.
	16ans+ Over 16 years: Could contain frequent violence scenes and violence.
	18ans+ Over 18 years: Only for adult viewing. Could contain frequent violent scenes and extreme violence.

## 6) CHANNEL MENU

The rightmost icon is Channel MENU for adjusting the TV Channels.  
Press ▼▲ to select items in the menu, press ◀▶ to adjust items.



- 1) TV Source: select Air TV signal or cable TV signal (Select Air TV signal if using an antenna).
- 2) Auto Scan: press the ▶ button to confirm, you will see below menu.
- 3) Auto Scan Add CH: press the ▶ button to confirm, you will see below menu.



- 4) Show/Hide : Press the right button to enter "show/hide" menu, press the up/down button to select channel, then press OK button to display or hide channel.
- 5) Channel NO. : Display the current channel number.
- 6) Channel lable : Press right button to enter "channel lable" edit menu, press the up/down button to edit channel name.
- 7) DTV signal : Display DTV signal strength. Cannot be selected or adjusted.

## Service & Support

Problem	Probable cause	What to do
No signal found	Antenna is disconnected Antenna is damaged/misaligned Very weak signal area	Check Antenna Check aerial Try to reposition the antenna
No picture or sound	In OFF mode	Press the POWER SWITCH to ON
No response from remote control	Remote control is not aimed correctly Front panel obstructed Remote control battery inserted incorrectly Remote control battery exhausted	Aim remote control at front panel Check for obstructions Check battery are inserted correctly Replace remote control battery
Square blocks in picture or picture freezes	Antenna may not be compatible Antenna is damaged/misaligned Very weak signal area	Check with dealer Check Antenna Try to reposition the antenna
The built-in battery doesn't appear to charge	The unit must be on OFF/CHARGE mode in order to charge the battery	Move slide switch on the side of the unit to the OFF/CHARGE position. Ensure that your AC power adapter is plugged in.

## Specifications

Display Device	Color TFT-LCD
Receiving Channels	Air: 2-69      Cable: 1-135
Screen Size	7 inches (measured diagonally)
Screen pixels	480 x 234 pixels
Audio output	Analog stereo
Power Voltage	DC IN 12V
Power consumption	≤ 15W
Size	220 x 125 x 32mm
Weight	0.50kg

Specifications are subject to change without notice.



# Limited Warranty

**Innovative DTV Solutions, Inc. ("Innovative")** makes the following limited warranty. This limited warranty extends to the original consumer purchaser and is limited to non-commercial use of the product.

## One Year Parts & Labor Warranty

Innovative products purchased in the United States are warranted to be free from defects in materials or workmanship for a period of one year from the date of their original retail purchase. If the unit fails to conform to this warranty, we will service the product using new or refurbished parts and products, at **Innovative's** sole discretion.

During a period of one year from the effective warranty date, **Innovative will provide**, when needed, service labor to repair a manufacturing defect at its designated Service Center. To obtain warranty service in the United States, you must first call our **Customer Support Center at 1-877-252-6873, during the hours listed in the box below**. The determination of service will be made by Innovative Customer Support. **PLEASE DO NOT RETURN YOUR UNIT TO Innovative WITHOUT PRIOR AUTHORIZATION.** New or remanufactured replacements for defective parts or products will be used for repairs by Innovative at its designated Service Center for one year from the effective warranty date. Such replacement parts or products are warranted for an additional one year from the date of repair or replacement. The Customer will be required to ship the unit to the Service Center indicated at the time Customer Support is contacted to make the necessary repairs. The customer is responsible for all transportation charges to the service facility.

## Packaging and Shipping Instruction

When you send the product to the **Innovative** service facility you must use the original carton box and packing material or an equivalent as designated by **Innovative**.

## LIMITED WARRANTY

### Your Responsibility

- (1) You must retain the original sale receipt to provide proof of purchase.
- (2) These warranties are effective only if the product is purchased and operated in the U.S.A. or Canada.
- (3) Warranties extend only to defects in material or workmanship, and do not extend to any product or parts which have been lost or discarded, or damage to product or parts caused by misuse, accident, improper operation or maintenance, or use in violation of instructions provided with the product, or to product which has been altered or modified without authorization of **Innovative**, or to products or parts thereof which have had the serial number removed or changed.

### Out of Warranty

In the event your product requires repair after the limited warranty period has expired, please contact our Customer Support Center at **1-877-252-6873** or **www.1800customersupport.com**

**Hours: Monday–Thursday: 9am–7pm, Friday: 9am–5pm, Saturday: 9am–NOON Eastern time.**

**Important:** You are responsible for any transportation, shipping or insurance relative to the return of product to our Product Returns Center.

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, guarantees, agreements and similar obligations of manufacturer or seller with respect to the repair or replacement of any parts. In no event shall **Innovative** be liable for consequential or incidental damages.

No person, agent, distributor, dealer or company is authorized to change, modify or extend the terms of these warranties in any manner whatsoever. The time within action must be commenced to enforce any obligation of **Innovative** arising under the warranty or under any statute, or law of the United States or any state thereof, is hereby limited to one year from the date of purchase. This limitation does not apply to implied warranties arising under state law.

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.

For more information on other products and services, please visit our web site at

**www.1800customersupport.com**

Important: Also keep your "Bill of Sale" as proof of purchase.

Model no. \_\_\_\_\_ Product name \_\_\_\_\_

Type of set \_\_\_\_\_

Serial no. \_\_\_\_\_ Invoice no. \_\_\_\_\_

Date purchased \_\_\_\_\_ Dealer name \_\_\_\_\_

FOR SERVICE AND REPAIR, PLEASE VISIT **www.1800customersupport.com**

