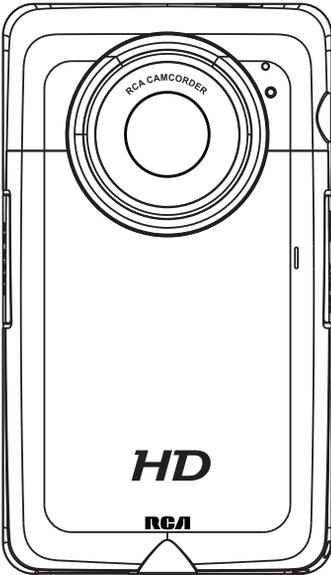


EZ2120 series

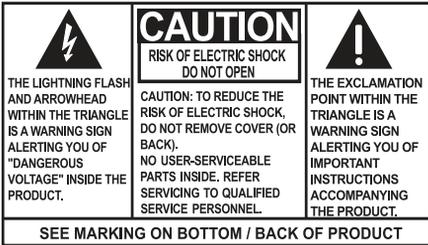


It is important to read this user manual prior to using your new product for the first time.

Important safety instructions

IMPORTANT SAFETY INSTRUCTIONS

PLEASE READ AND SAVE FOR FUTURE REFERENCE



WARNING: TO PREVENT FIRE OR ELECTRICAL SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

Some of the following information may not apply to your particular product; however, as with any electronic product, precautions should be observed during handling and use.

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Only use attachments/accessories specified by the manufacturer.
- 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.

ADDITIONAL SAFETY INFORMATION

- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- Do not attempt to disassemble the cabinet. This product does not contain customer serviceable components.
- The marking information is located at the bottom of apparatus.

Important battery information

Warning: Your product contains a battery and charging system which is designed to work in temperatures that do not exceed 50°C (122°F). Leaving this product in a closed automobile or the trunk of an automobile where temperatures may exceed 50°C may result in permanent battery damage, fire, or explosion. Please remove your product from the automobile when you exit, do not place your product in the trunk of your automobile, and do not leave your product in any location where temperatures may exceed 50°C.

Ecology

Your product must be disposed of properly according to local laws and regulations. Because this product contains a battery, the product must be disposed of separately from the household waste.

Precautions for the unit

- Do not use the unit immediately after transportation from a cold place to a warm place; condensation problems may result.
- Do not store the unit near fire, places with high temperature or in direct sunlight. Exposure to direct sunlight or extreme heat (such as inside a parked car) may cause damage or malfunction.
- Clean the unit with a soft cloth or a damp chamois leather. Never use solvents.
- The unit must only be opened by qualified personnel.

FCC Information

Note: 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.

Changes or modifications not expressly approved by Audiovox could void the user's authority to operate the equipment.

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.

Manufacturer/Responsible Party
Audiovox Accessories Corporation
111 Congressional Blvd., Suite 350
Carmel, IN 46032

1-317-810-4880 (No technical /product support is available via this number. This phone number is for regulatory matters only.)

Visit www.rcaaudiovideo.com for technical support



RCA
EZ2120



RCA
EZ2120BL



RCA
EZ2120BK



RCA
EZ2120PL



RCA
EZ2120RD



RCA
EZ2120SL

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

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End user license agreement

This is a copy of the EULA that you need to agree to in order to use this product.



End user license agreement

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Getting started

Dear RCA customer,

Thank you for purchasing the RCA Small Wonder Camcorder. This product will let you record videos with high definition quality. You can also manage your recordings on your computer with the RCA Memory Manager included with this product.

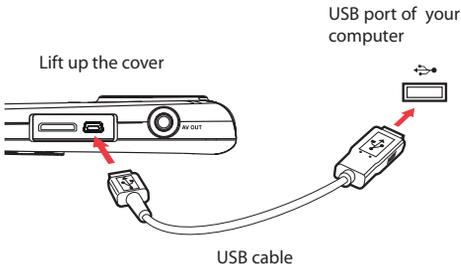
To start using your camcorder, please follow the setup instructions in the following pages.

1. Content of the box

- Small Wonder Camcorder
- USB cable
- AV cable
- 4GB memory card (Installed in device)
- Software disc
- HDMI cable
- Quick Start Guide

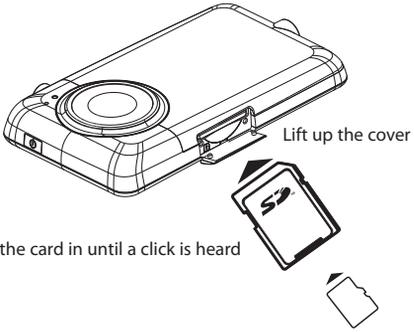
2. Charging the battery

- Please charge the battery for at least 4 hours before first use.
- Make sure that you have the camcorder connected to the computer USB port through USB cable, and the computer is turned on. Refer to Connecting to PC section for more information.



3. Inserting (or removing) SD memory card

An SD memory card is recommended for recording (memory card supplied). If you use a microSD card, insert the card in the micro-SD card adapter before inserting it into the camcorder's card slot.



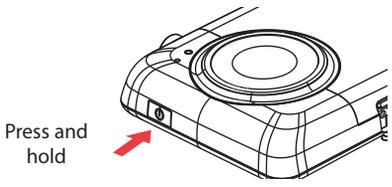
- The card icon appears on the screen with memory card inserted.
- To remove card, push card in until a click is heard, then slowly release the card. As card is under minimal tension when locked in memory slot, please use care when removing.

Internal memory is not available. An SD memory card is recommended for recording (memory card supplied).

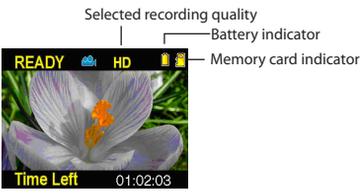


4. Turning on the camcorder

- Press and hold the power switch  until the camcorder turns on.



- "Ready" shows on the LCD screen when the camcorder is ready for recording.



- Press and hold the power switch  to turn off the camcorder.
- The camcorder will automatically turn off after 3 minutes if not in use.
- Refer to the following pages for more information on recording and other operations.

5. Resetting the camcorder

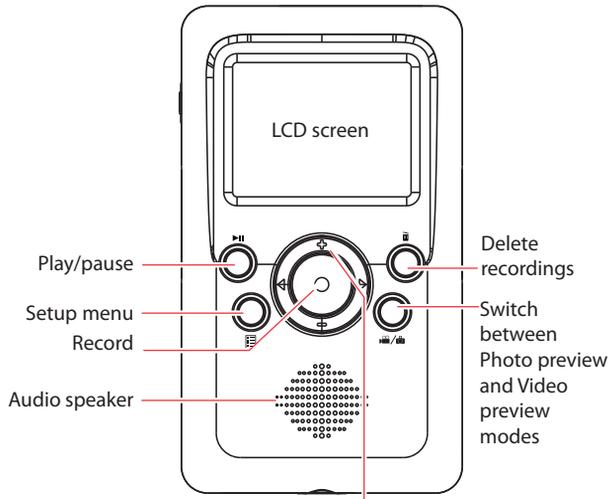
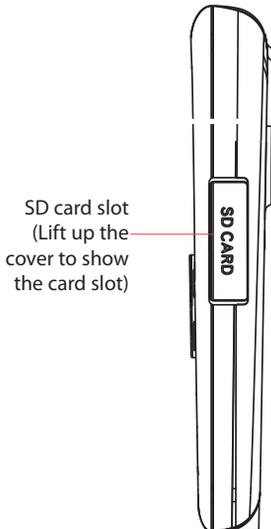
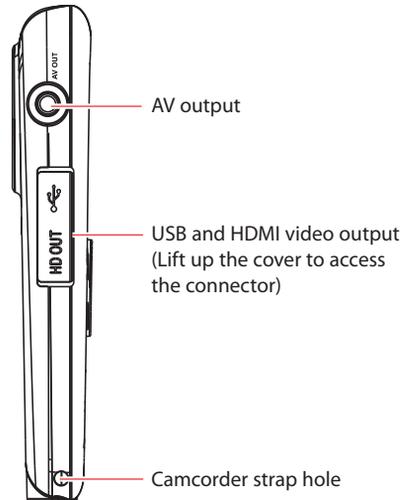
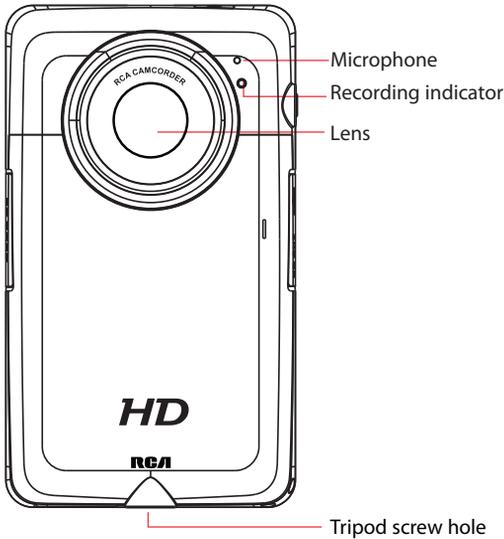
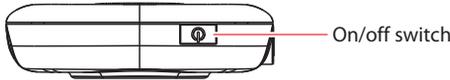
- To reset the camcorder (if it is not functioning properly), press and hold the On/Off switch for more than 10 seconds.

6. Setting date and time

- It is recommended to set the date and time before using the camcorder. Refer to Menu settings section for more information.

General controls

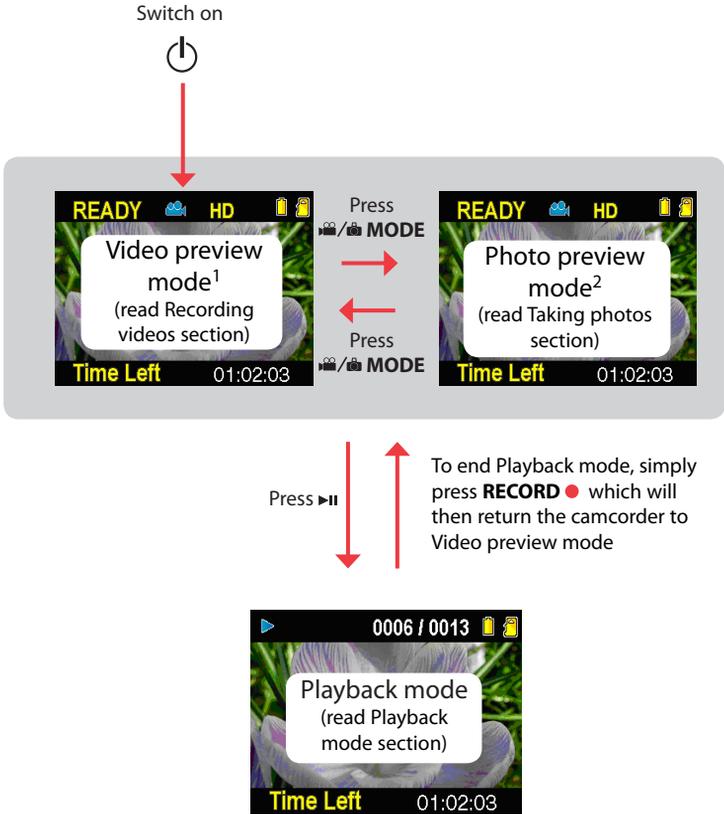
General controls



+/- Adjust volume during playback; zoom during record and preview
◀/▶ – Skip to previous or next recording; fast rewind or forward

Operation modes

There are three basic modes for operating the camcorder: Video preview mode, Photo preview mode and Playback mode. It will always launch in video preview mode after being switched on. Refer to the diagram below for switching between modes and read relevant sections in the user manual for detailed operations.



¹ In Video preview mode, press **RECORD ●** to record a video

² In Photo preview mode, press **RECORD ●** to record a photo

Recording videos

Recording quality

1. In Video preview mode, press / **MODE** to show the camcorder menu.
2. Press - or + to highlight Quality within the Video Menu
3. Press **RECORD** to select Quality which will then expose the choices of HD, HQ and WebQ.
4. Press - or + to highlight the desired Quality from HD, HQ or WebQ, then press REC to save that setting.
5. Press / **MODE** to exit the camcorder menu. The selected setting (HD, HQ or WebQ) appears on the display screen during preview.

Quality settings

Settings	Recommended for:	Resolutions (pixel) and Frame Rate (FPS)	Approx. recording durations on a 32GB SD memory card*
HD (High Definition mode)	Viewing on TV & Best video quality	1280 x 720 @ 30fps	Up to 16 hours
HQ mode	Viewing on TV & High video quality	720 x 480 @ 30fps	Up to 28 hours
WebQ (Web Quality mode)	Uploading to and viewing on the web	320 x 240 @ 30fps	Up to 80 hours

* Actual recording time and capacity will vary depending on type of video content being recorded, system requirements, and other factors.



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Recording videos

1. In Video preview mode, press the red **RECORD** ● button to begin recording.



Video recording indicator



Elapsed time

- While recording, the red recording light on the camcorder front will turn on.
2. Press ►|| to pause a recording.
 - A pause indicator || replaces the red **RECORD** indicator ● **Rec** at the top left corner of the screen.
 - To resume recording, press ►||.
3. Press + or – to zoom in or out before or during recording.
 4. Press the red **RECORD** ● button to stop recording.

Taking photos

To take photos

1. In Photo preview mode, press **RECORD** ● to take photos.



- The photo resolution is 3 megapixels which is interpolated from a 1 megapixel sensor.
2. After taking a photo, please allow a few seconds for image processing before the next photo can be taken.

Playback mode

Playing back recordings

1. Press **▶** to enter Playback mode and start playback of the most recent recording (video/photo).

Playback indicator Current file number/Total number of files



2. Press + or – during playback to adjust volume (video only).
3. Hold down ◀ or ▶ to fast rewind or forward the selected video during playback.

Fast forward indicator

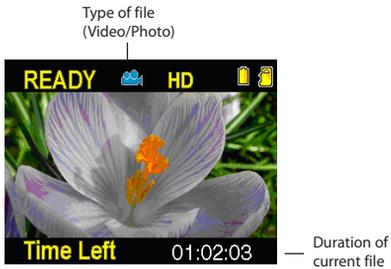


4. Press **⏸** to pause playback.
- Press **▶** again to resume playback.

Pause indicator



5. To select another video, press ◀ or ▶ to cue the previous or next video.



6. When video playback stops, press / **MODE** or **RECORD** to return to Video preview mode. (Press **RECORD** to stop video playback)

Deleting

To delete one recording

1. Press ◀ or ▶ in Playback mode to select file.
2. Press **DELETE**.
3. Press + or - to select **One**.



4. Press the red **RECORD** ● button to confirm delete.

To delete all recordings

1. Press **DELETE** in Playback mode and press + or - to select **All**.



2. Press the red **RECORD** ● button.
3. Press + or - to select **Confirm** and press the red **RECORD** ● button to confirm delete all recordings.

Menu settings

Using the camcorder menu

1. Press  **MODE** to show the camcorder menu on the screen.
2. Press + or – to highlight a menu option.



3. Press ► to enter the highlighted menu option.
4. Press + or – to change the setting.



5. Press ◀ to exit the current menu option.
6. Press  **MODE** to save settings and exit the camcorder menu.

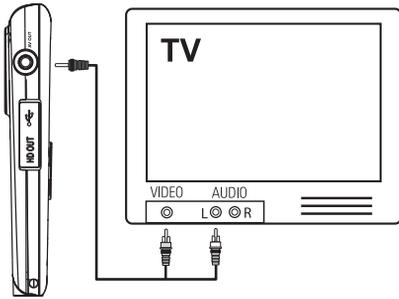
Menu options and settings

Menu options	Available settings
Lighting	Auto, Outdoor, Indoor, Low light
Photo Quality	3MP, 1MP
Video Quality	HD, HQ, WebQ
TV Output	NTSC (US), PAL
Date	YYYY - MM - DD
Time	HR : MM AM/PM
Language	English, Spanish, French
Key tone	On, Off
Restore defaults	No, Yes
System Info	Show the current firmware version

Connecting to external devices

Viewing videos on TV

1. Plug in the AV cable (provided) – Insert the single connector end into the camcorder (AV jack) and connect the double connector ends to the corresponding video (yellow) and audio (white) input jacks on the TV.



2. Turn on the TV and the camcorder.
3. Switch the TV to the selected video input.
 - Refer to your TV manual for instructions.
4. You may play and delete videos viewed on the TV by using the camcorder buttons.

The default TV output standard is NTSC. You can switch it to PAL standard by going to the camcorder menu. Refer to "Menu settings" for more information.



Recording videos to VHS tape or DVD

1. Plug in the AV cable (provided) – Insert the single connector end into the camcorder and connect the double connector ends to corresponding video (yellow) and audio (white) inputs of the recording device (VHS or DVD recorder).
2. Turn on the camcorder and the recording device.
3. Switch recording device to the video input connected to the camcorder.
 - Refer to your user manual of the recording device for instructions.
4. Start recording of your recording device. Press ►|| to playback the file you wish to record.

- To record all videos, press and hold ►|| on the camcorder for 3 seconds to play all videos on the camcorder.
- For best viewing or recording quality, use the HDMI connector on the right panel of the camcorder with an HDMI cable.



Managing videos on your computer

Computer system requirements

Windows® XP (SP2 or higher) or Windows Vista™ or Windows® 7

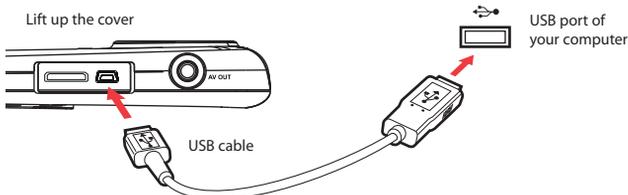
- Intel® Core™ 2 Duo CPU E6300 (or above) or AMD Athlon™ 64 X2 3800+ (or above) processor recommended
- 1GB RAM (2GB recommended for editing HD videos)
- 300 MB available hard disk space
- 256 MB Graphics Card (or above) recommended
- 1024 x 768 pixels, 32-bit color monitor or higher
- USB Port (2.0 recommended)
- Internet Access (broadband recommended)

Mac OS X 10.5,10.6

- Intel Core 2 Duo (or above) recommended
- 768 MB RAM (1GB recommended)
- 300 MB free hard drive space for program installation
- 1024 x 768 pixels or higher recommended
- Internet Access (broadband recommended)

Connecting to a PC

1. Connect the supplied USB cable to the connection jack. USB connector standard: mini-B
2. Connect the other end of the cable to the computer.



3. **Windows:** To access the Memory Manager 3 installer, go to **My Computer** (XP users) /go to **Computer** (Vista and 7 users) in the Start menu, find and open the drive letter associated with the SmallWonder and then double-click the **MemoryMgr3_Windows_Installer.exe** file to launch the installer. The RCA Detective application is installed with Memory Manager 3 and will automatically run the Memory Manager 3 application when your camcorder is connected to the PC.

Mac: To access the Memory Manager 3 installer, double-click the SmallWonder volume. Double-click the **RCAMacInstallers.dmg** disk image in the SmallWonder volume. Locate the **RCAMacInstallers** volume on the desktop and Double-click on it. Double-click the **MemoryMgr3 Mac Installer** file in the **RCAMacInstallers** volume to start the installation. After the Memory Manager 3 installation has completed, double-click the **RCA Detective Installer** file in the RCAMacInstallers volume to install the RCA Detective application, which will automatically run the Memory Manager 3 application when your camcorder is connected to the Mac.

Memory Manager is proprietary software licensed by Audiovox Corporation.



About RCA Memory Manager

The included RCA Memory Manager application lets you:

- Browse and play videos
- Delete videos
- Save videos to your computer
- Edit videos by simply drag-and-drop

For more detailed instructions on using RCA Memory Manager, please refer to the help section in the software.



Viewing videos on PC

To ensure that videos can be managed and played on your PC:

- Make sure to install the included Memory Manager application.

* The application is also available for free download at www.rcaaudiovideo.com

Windows is a registered trademark of Microsoft Corporation in the United States and other countries.

Additional information

Tips and troubleshooting

Cannot turn on the camcorder.

- Make sure the battery is not empty. Refer to the user manual to properly charge the camcorder before use.

SD memory card cannot be detected by camcorder.

- Make sure the SD memory card is inserted properly. Remove and insert the card from the card slot again when the camcorder is powered off.

Camcorder not turned on after connected to PC.

- The camcorder battery may be very low. Press the power button to turn on the camcorder after connecting to PC.

Cannot record videos.

- Make sure the memory space is not full.

Available time for recording has significantly reduced.

- Make sure you have properly selected the video recording quality before recording.

The recording time and date are incorrect.

- Make sure you have properly set the date and time in the setting menu. Refer to "Menu settings" for more information.

The keytone is annoying. Can it be switched off?

- Yes. Refer to "Menu settings" for more information.

No sound when playing back recordings.

- Adjust the volume by pressing + or – during playback.

Pictures are distorted when videos are played back via connected TV set.

- Make sure you have correctly selected the TV output system (PAL or NTSC) from the setting menu. Refer to "Menu settings" for more information.

Can I retrieve deleted videos and photos?

- Unfortunately, deleted videos cannot be retrieved.

The camcorder is not functioning properly.

- Press and hold the On/Off switch for more than 10 seconds to reset the camcorder.

Cannot view recorded videos on PC.

- Install the included Memory Manager software and use it to view videos on your PC.

My friends cannot view the videos I have sent them.

- Use the SHARE functions of the Memory Manager for sharing videos with friends and family. The native files from the camcorder may not play in other computers.

Visiting RCA website

Please visit www.rcaaudiovideo.com for:

- Latest software and firmware
- RCA Memory Manager Software
- User manual
- Frequently asked questions (FAQ)
- Customer service and technical support information

Technical specifications

Battery:

- Built-in 3.7V Lithium battery

Size and frame rate of video recordings:

- HD mode: 1280 x 720 pixels @ 30 fps (H.264 video compression, MOV file format)
- HQ mode: 720 x 480 pixels @ 30 fps (H.264 video compression, MOV file format)
- WebQ mode: 320 x 240 pixels @ 30 fps (H.264 video compression, MOV file format)

Size of still images:

- 2304 X 1296 pixels (JPG)

Recording media:

- SD memory card (Installed in device)

Maximum recording time (approximate figures):

Video Recording Modes	Maximum recording time with 32 GB SD card
HD (High Definition mode)	16 hours
HQ (High Quality mode)	28 hours
WebQ (Web Quality mode)	80 hours
Maximum no. of photos can be taken	15,200

* Actual recording time and capacity will vary depending on type of video content being recorded, system requirements, and other factors.

LCD screen:

- 2 inches

Microphone:

- Mono microphone

Charging Time:

- 4 hours

Warranty information

12 Month Limited Warranty Applies to RCA Camcorders

AUDIOVOX ACCESSORIES CORP. (the Company) warrants to the original retail purchaser of this product that should this product or any part thereof, under normal use and conditions, be proven defective in material or workmanship within 12 months from the date of original purchase, such defect(s) will be repaired or replaced with reconditioned product (at the Company's option) without charge for parts and repair labor.

To obtain repair or replacement within the terms of this Warranty, the product is to be delivered with proof of warranty coverage (e.g. dated bill of sale), specification of defect(s), transportation prepaid, to the Company at the address shown below.

This Warranty does not extend to the elimination of externally generated static or noise, to correction of antenna problems, loss/interruptions of broadcast or internet service, to costs incurred for installation, removal or reinstallation of product, to corruptions caused by computer viruses, spyware or other malware, to loss of media, files, data or content, or to damage to tapes, discs, removable memory devices or cards, speakers, accessories, computers, computer peripherals, other media players, home networks or vehicle electrical systems.

This Warranty does not apply to any product or part thereof which, in the opinion of the Company, has suffered or been damaged through alteration, improper installation, mishandling, misuse, neglect, accident, or by removal or defacement of the factory serial number/bar code label(s). THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT.

This Warranty is in lieu of all other express warranties or liabilities. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY HEREUNDER INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY MUST BE BROUGHT WITHIN A PERIOD OF 24 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY. No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Recommendations before returning your product for a warranty claim:

- If your product is capable of storing content (such as an mp3 player, voice recorder, camcorder, digital photo frame, etc), it is recommended to make periodic backup copies of content stored on the product. If applicable, before shipping a product, make a back up copy of content or data stored on the device. Also, it is advisable to remove any personal content which you would not want exposed to others. IT IS LIKELY THAT CONTENTS AND DATA ON THE DEVICE WILL BE LOST DURING SERVICE AND REFORMATTING. AUDIOVOX ACCEPTS NO LIABILITY FOR LOST CONTENT OR DATA, OR FOR THE SECURITY OF ANY PERSONAL CONTENT OR DATA ON THE RETURNED DEVICE. Product will be returned with factory default settings, and without any pre-loaded content which may have been installed in the originally purchased products. Consumer will be responsible for reloading data and content. Consumer will be responsible to restore any personal preference settings.

- Properly pack your unit. Include any remotes, memory cards, cables, etc. which were originally provided with the product. However DO NOT return any removable batteries, even if batteries were included with the original purchase. We recommend using the original carton and packing materials. Ship to

Audiovox Electronics Corp.
Attn: Service Department.
150 Marcus Blvd.
Hauppauge N.Y. 11788

1-800-645-4994

For Canada Customers, please ship to:

Audiovox Return Centre
c/o Genco
6685 Kennedy Road,
Unit#3, Door 16,
Mississauga, Ontario
L5T 3A5

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Visit <http://store.audiovox.com> to find the best accessories for your products.



For Customer Service
Visit Our Website At

www.rcaaudiovideo.com

Product Information, Photos,
FAQ's, User Manual

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