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For the technical specifications of the SILVER BULLET RX7500 and/or to download the most recent versions of this manual, please visit www.pnicorp.com.

INTRODUCTION

Congratulations on purchasing your SENSORO SILVER BULLET RX7500, the ultra compact, wireless radar/laser detector. Made by PNI Corporation, the SILVER BULLET RX7500 uses patented, innovative technology to bring you long-range radar detection in an incredibly compact, slim package. The SILVER BULLET attaches easily to your windshield, dashboard, or visor.

Features

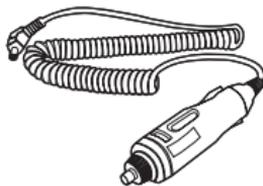
- All-band radar/laser signal detection
- Undetectable by VG-2 radar-detecting devices
- 360-degree radar and laser coverage
- Identifies constant-on and instant-on radar signals
- 3 alert filter modes: FILTER-NORMAL, FILTER-HIGH, and FILTER-OFF
- 8 signal strength meter levels
- LCD screen with bright backlight
- Separate power on/off switch and volume control
- Automatic audio control
- Automatic power-off
- Retains previously set operation modes after power off
- Tutorial mode to demonstrate operations
- Operates on 2 AA batteries or 12V DC power adapter
- Mounts on windshield, dashboard, or visor

PACKAGE CONTENTS

Your SILVER BULLET RX7500 package includes the following components:



1. Radar/laser detector unit



3. 12V DC coiled power cord



2. Two AA alkaline batteries



4. 12V DC straight power cord

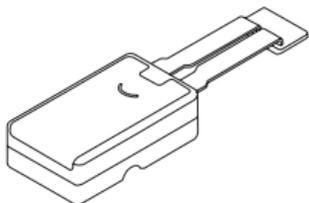


5. Six (6) suction cups

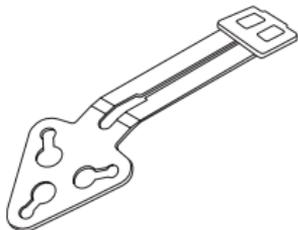
PACKAGE CONTENTS



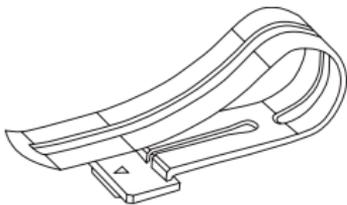
6. Ten (10) retaining clips



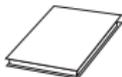
7. Windshield bracket A



8. Windshield bracket B



9. Visor bracket

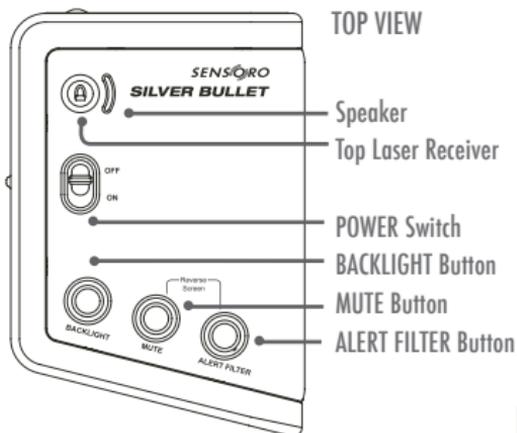


10. Hook & loop fastener

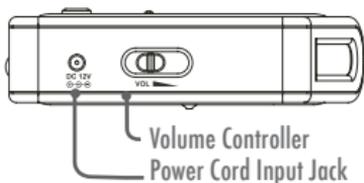
11. Operation manual

► If you are missing any of these contents, please call our offices at 1-888-422-6672 and we will ship them to you immediately.

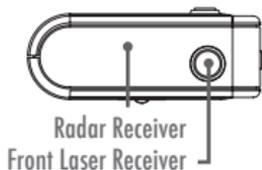
CONTROLS



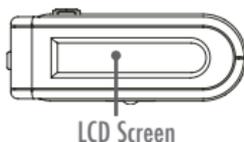
SIDE VIEW



REAR VIEW



FRONT VIEW

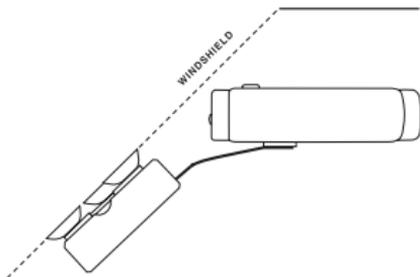
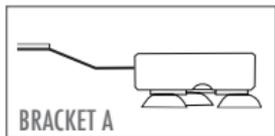


INSTALLATION

The SILVER BULLET RX7500 can be easily installed on your windshield, visor, or dashboard. Each location has its own installation hardware and requirements.

Windshield Installation- Battery Operation (use Bracket A)

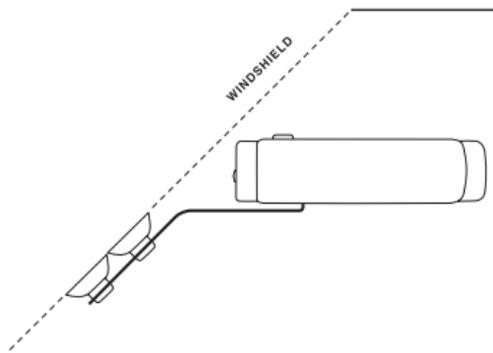
1. Install 2 AA alkaline batteries into the windshield bracket A battery box (see Battery Information, page 13).
2. **Adjust mounting bracket.** Bend the angle of the metal bars of the windshield bracket to set the best viewing and detection angle, ensuring the radar detector is level with the road.
3. **If suction cups are not installed in the bracket,** insert the nipples of the suction cups into the back of the battery box.
4. **Secure to windshield.** Press the bracket firmly against the windshield until the suction cups take hold securely.
5. **Mount the radar detector** onto the plastic piece at the end of the bracket. You will hear a "click" when the two parts are properly connected.



INSTALLATION

Windshield Installation – Power Cord Operation (use Bracket B)

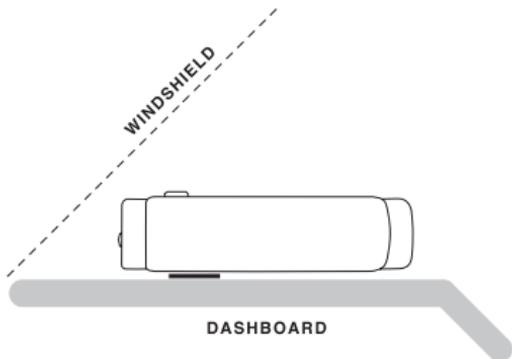
1. **Adjust mounting bracket.** Bend the angle of the metal bars of the windshield bracket B to set the best viewing and detection angle, ensuring the radar detector is level with the road.
2. **If suction cups are not installed in the bracket,** insert the nipples of the suction cups into the windshield bracket.
3. **Secure to windshield.** Press the bracket firmly against the windshield until the suction cups take hold securely.
4. **Mount the radar detector** onto the plastic piece at the end of the bracket. You will hear a “click” when the two parts are properly connected.
5. **Power-up.** Plug the small end of the coiled power cord into the power jack on the side of the radar detector. Plug the large end of the power cord into the power socket of your vehicle.



INSTALLATION

Dashboard Installation – Power Cord Operation only

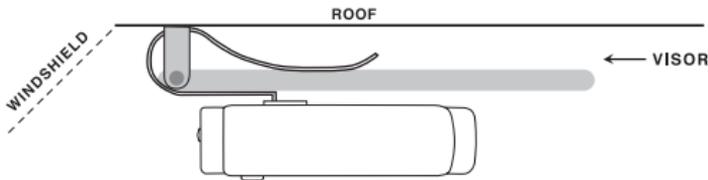
1. **Attach fastener.** Peel off backing and adhere one side of the hook & loop fastener directly to your dashboard, the other side to the bottom of the radar detector.
2. **Attach the radar detector to the dashboard** by placing the fastener pieces together.
3. **Power-up.** Plug the small end of the coiled power cord into the power jack on the side of the radar detector. Plug the large end of the power cord into the power socket of your vehicle.



INSTALLATION

Visor Installation - Power Cord Operation only

1. **Attach visor bracket.** Clip the visor bracket to the back pivoting edge of your visor, so that the plastic piece of the bracket faces downward when the visor is in its normal, stowed position.
2. **Attach the radar detector to the bracket.** Turn the radar detector upside down and mount it onto the plastic end of the visor bracket. You will hear a "click" when the two parts are properly connected. Make sure the screen faces you.
3. **Power-up.** Plug the small end of the straight power cord into the power jack on the side of the radar detector. Plug the large end of the power cord into the power socket of your vehicle.
4. **Turn on the unit** by moving the power switch to ON.
5. **Reverse the radar detector's text display.** Press and hold the MUTE and ALERT FILTER buttons simultaneously for 3 seconds to reverse the text display (so messages will be seen right-side-up).
6. **Use the retaining clips to attach any loose wire** between the visor and the power socket. Be careful not to leave any dangling wires that will distract the driver.



QUICK GUIDE

Choose where to install the Silver Bullet radar detector

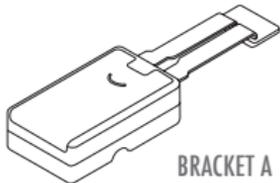
The Silver Bullet can be installed on your windshield, dashboard or visor.

- Windshield installation includes both battery and power cord options.
- Dashboard and visor installations include power cord option only.

Installing your Radar Detector

Windshield – Battery option (use Bracket A)

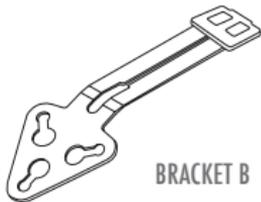
1. Install 2 AA alkaline batteries in the bracket battery box.
2. Bend the bracket bars as needed to ensure the radar detector will be easily visible and level with the road.
3. Press securely against the windshield.
4. Attach the radar detector to the bracket - you will hear a "click" when properly connected.



BRACKET A

Windshield – Power Cord option (use Bracket B)

1. Bend the bracket bars as needed to ensure the radar detector will be easily visible and level with the road.
2. Press securely against the windshield.
3. Attach the radar detector to the bracket - you will hear a "click" when properly connected.
4. Plug the power cord into the radar detector and power socket of your vehicle.

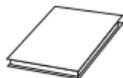


BRACKET B

QUICK GUIDE

Dashboard – Power Cord option (use Hook & Loop fastener)

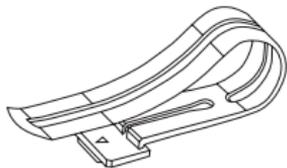
1. Mount the radar detector directly onto the dashboard using the hook & loop fastener (with sticky sides attached to the dashboard and bottom of radar detector).
2. Plug the power cord into the radar detector and power socket of your vehicle.



HOOK & LOOP FASTENER

Visor – Power Cord option (use Visor Bracket)

1. Clip visor bracket to the back, pivoting edge of your visor.
2. Turn the radar detector upside-down and attach to the visor clip – you will hear a “click” when properly connected.
3. Attach the power cord to the radar detector.
4. Turn on the radar detector.
5. **Press and hold** the MUTE and ALERT FILTER buttons simultaneously for 3 seconds to reverse the text display (so messages will be seen right-side-up).
6. Use the retaining clips to neatly tuck away the power cord.



VISOR BRACKET

Turning On the Radar Detector

1. Move the POWER switch to ON.
2. The screen will display “SENSORO RADAR DETECTOR * * * FILTER-NORMAL” indicating a normal filter mode.
3. The screen will then display “SYSTEM ON”.

QUICK GUIDE

Understanding Alert Messages

1. When a radar signal is detected, the screen displays the name of the band – “X”, “K”, or “KA” – and a number indicating the strength of the signal (1 to 8).
2. The higher the number, the stronger the signal.
3. Stronger signals usually imply that you’re closer to a police radar/laser device.
4. When a laser signal is detected, the screen displays “LASER”.

Adjusting the Alert Filter

If you receive too many false alert signals, or are driving in specific environments, press the ALERT FILTER button to switch between filter modes:

- FILTER-NORMAL – Optimized filtering for typical city or highway driving
- FILTER-HIGH – Increased filtering to reduce most false alerts, good for high-density commercial areas
- FILTER-OFF – No filtering of alert signals, ideal for open space areas

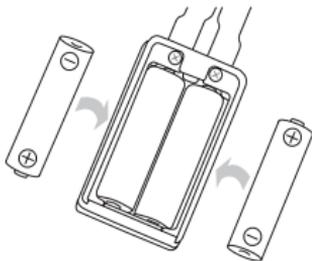
OPERATION DETAILS

Battery Information

The SILVER BULLET RX7500 operates on two AA alkaline batteries. To ensure optimum performance and battery life, we advise against using other types of batteries. Using AA rechargeable batteries is NOT recommended as the resulting battery life will be shorter due to characteristics of rechargeable batteries

Battery Installation

1. BE SURE the radar detector is turned off; disconnect the battery box from the radar detector.
2. Remove the battery door on the battery box.
3. If replacing batteries, remove old batteries by pulling the battery removal ribbon.
▶ *Do not mix old and new batteries for maximum battery life.*
4. Insert two fresh AA alkaline batteries into the battery box, observing the polarity indication inside the battery box.
5. Replace the battery box door and reconnect the battery box to the radar detector.
6. The radar detector is ready for use.



OPERATION DETAILS

Battery Life

The SILVER BULLET RX7500 can provide approximately 30-40 hours of battery life from two AA alkaline batteries. Battery life is affected by many variables, such as the brand and condition of the batteries, the ambient temperature, the number and strength of engaged signals, and the duration of reported alerts, backlight, and user settings. The estimated battery life provided here is based on battery aging tests conducted in laboratory environments.

Low Battery Indicator

A "LOW BATTERY" message will appear when 2 to 4 hours of battery life remain. This message will scroll across the screen for 10 seconds accompanied by a beeping sound. This will repeat every 30 minutes until no battery power remains and the radar detector shuts off.

- ▶ *We suggest keeping the power cord readily available. If your batteries are drained, the cord will allow you to continue using your radar detector until you can replace the batteries.*

Auto Power-Off

To conserve battery power, the SILVER BULLET RX7500 will automatically shut off when no signal detection and no button manipulation have occurred for 40 minutes. The radar detector will display "ENTERING SLEEP MODE... PRESS ANY BUTTON TO STAY ON" and will beep for 20 seconds before powering down. To keep the radar detector on, just press any button while the audio and visual warnings are displayed.

- ▶ *The automatic power-off does not function when the radar detector is operated by power cord.*
- ▶ *Please turn off the radar detector whenever you leave your vehicle. Even a weak signal can cause it to remain on and drain your batteries.*
- ▶ *If the radar detector was turned off automatically, you can turn it back on by pressing any button, or by moving the power switch to OFF and then to ON.*

OPERATION DETAILS

Turning On the Radar Detector

- Move the POWER switch to ON.
- The screen will display "SENSORO RADAR DETECTOR * * * FILTER-NORMAL" if it's your first use since purchase.
- If you selected an alternate alert filter mode during previous use, it will display either "FILTER-HIGH" or "FILTER-OFF" instead of "FILTER-NORMAL" in the message above per your selection.
- The screen will then display "SYSTEM ON".

Using the Backlight

Press the BACKLIGHT button to switch the backlight on or off. The radar detector will sound 1 beep when the backlight is turned on, and 2 beeps when it is turned off.

► *If the backlight stays on for more than 15 minutes, the screen will scroll twice "BACKLIGHT IS ON... TURNING OFF WILL PROLONG YOUR BATTERY LIFE". This will repeat every 15 minutes.*

The backlight is automatically on for 5 to 20 seconds at the following events:

- While the tutorial messages are displayed - 15 seconds
- While the auto power-off messages are displayed - 20 seconds
- While the low battery message is displayed - 10 seconds
- When a button is pressed - 5 seconds
- When an alert message is displayed - 5 seconds

OPERATION DETAILS

Using the Mute Feature

Press the MUTE button to switch between “START MUTE” and “END MUTE”. In the “END MUTE” mode, the radar detector automatically lowers the audio alert level to the ambient noise level in your vehicle when it detects a continuous signal for 5 seconds or more. Also the audio alert level remains low for 60 seconds, even if, during that time, a second separate signal is detected. In the “START MUTE” mode, the radar detector will remain completely silent but will continue to provide visual alerts.

Understanding Signal Alerts

Three (3) radar bands (X, K, and superwide KA) and one (1) laser band are typically used by police radar/laser devices. When a radar signal is detected, the screen displays the name of the radar band – “X”, “K”, or “KA” – together with a number indicating the strength of the detected signal (called the signal strength meter). When a laser signal is detected, the screen displays “LASER”.

- There are 8 levels in the signal strength meter – 1 to 8. The higher the number, the stronger the signal.
- The signal strength meter can provide a good indication of the proximity of the detected signal. Usually, strong signals are closer to you than weak signals.
- When “LASER” alert is displayed, it is highly recommended that you promptly reduce your speed if you’re driving faster than the speed limit. Police laser devices can measure the speed of a target vehicle when it is within 1,500 feet in line of sight.

► *Except for a few early devices, X band (10.50 ~ 10.55 GHz) was the only frequency used for police radar until the mid-1970’s. In 1976 radar devices using K band (24.05 ~ 24.25 GHz) were introduced; this led to the development of the first dual band (X and K) radar detectors.*

OPERATION DETAILS

A proliferation of radar devices using KA band frequencies began in 1987 with the introduction of photo radar (34.3 GHz) and was followed by the Stalker (34.2 ~35.2 GHz) in 1991 and the BEE 36A (33.4 ~34.4 GHz) in 1992.

Early detectors needed only to listen for X band radar. When K band arrived, dual band detectors able to receive both frequencies (X and K) were required. The introduction of KA band photo radar (34.3 GHz) led to the development of tri-band detectors able to detect X, K, and a small portion of KA band. A fourth category of radar receivers called "wide-band" with X, K, and wide KA (34.2 ~35.2 GHz) band detection capabilities reached the market following the introduction of Stalker radar. Finally, in response to the BEE 36A, a new generation of "superwide-band" radar detectors was developed. They detect all radar devices operating on X, K, and superwide KA (33.4 ~36.0 GHz) band. All SENSORO radar/laser detectors are superwide band receivers.

Laser devices transmit an invisible light beam at a frequency (more accurately a "wavelength") of 904 nanometers. A nanometer is how a light wavelength is measured. Different laser devices operate at different light pulse rates and some manufacturers call them "bands". All SENSORO radar/laser detectors can detect all current laser devices in use.

Less than 1,000 laser devices are in service in 45 states at present. Most are used by city police on urban multi-lane roadways. The use of laser devices for speed monitoring is expected to increase, but will remain limited due to their high cost and limited attractiveness to agencies that favor the convenience, offered by conventional moving radar. Currently, laser guns account for less than 5% of the total number of speed monitoring devices (radar and laser) sold in the U.S. annually; during the next five years, this figure is expected to remain under 8%. Laser devices will likely be in service in every state within a few years.

OPERATION DETAILS

Using the Alert Filter Button

Press the ALERT FILTER button to switch between filter modes. The factory default is FILTER-NORMAL.

- **FILTER-NORMAL** - Optimized filtering for typical city or highway driving. The NORMAL mode filters out all X band and other known radar signals commonly associated with annoying false alerts in city and suburban areas. When this mode is selected, the screen will scroll "FILTER-NORMAL MODE".
 - **FILTER-HIGH** - Increased filtering to reduce most false alerts, good for high-density commercial areas. The HIGH mode is ideal when you're receiving frequent false alerts. Most North American speed monitoring systems use the K or KA bands, and this mode will not adversely affect the sensitivity to police radar/laser devices. When this mode is selected, the screen will scroll "FILTER-HIGH MODE".
 - **FILTER-OFF** - No filtering of alert signals, ideal for open space areas. The OFF mode eliminates the X band filter and is recommended for driving in areas where X band radar devices are still in use. While now being phased out in most areas, X band is still used in some locations. When this mode is selected, the screen will scroll "FILTER-OFF MODE".
- ▶ *X band, occupied by police radar, is also used for other devices, such as automatic door openers like those at supermarkets, burglar alarms, terrestrial microwave emission, and more. In addition, other radar detectors in close proximity may falsely alert your detector. Filtering false alerts will help you travel more comfortably.*

Invisibility to VG-2 Devices

VG-2 is a technology used by speed monitoring systems to identify vehicles equipped with radar detectors in instances and locations where they are not legal (such as in vehicles over 10,000 lbs. or in Virginia and Washington D.C.). The VG-2 interceptors work by detecting emission frequencies (11.4~11.7 GHz)

OPERATION DETAILS

generated by radar detectors. The Silver Bullet RX7500 does not generate emissions detectable by these VG-2 radar detector-sensing devices.

Tutorial Mode

The Silver Bullet RX7500 includes a tutorial mode to familiarize you with the radar detector's visual displays and distinct audio alarms. To activate the on-screen tutorial, **press and hold** the BACKLIGHT button for 5 seconds. The screen will display the following visual messages, each with a unique audio alarm that distinguishes it from the other messages.

X band detected operation:



K band detected operation:



Ka band detected operation:



Instant-on signal detected operation:



Laser band detected operation:



After the tutorial is finished, the screen will automatically revert back to displaying "SYSTEM ON".

TROUBLESHOOTING

Your SILVER BULLET RX7500 is designed to deliver consistent and reliable service. If you encounter a problem, please refer to this section before returning your radar detector.

- **The radar detector does not power up when intended to operate by battery power.**
 - Check and replace batteries.
 - Check all connections between the radar detector and the battery box.
- **The radar detector does not power up when intended to operate by power cord.**
 - Check all power cord connections.
 - Check fuse in 12 volt adapter and replace if necessary; see ► *Fuse Replacement for detail.*
 - Check power outlet in your vehicle. Clean if dirty.
 - Check your vehicle's fuse panel.
 - *Fuse Replacement: The 12 volt adapter of the power cord has a replaceable 2-Amp SAG fuse located below the silver tip. To check or replace the fuse, slowly and carefully unscrew the tip of the plug, making sure the spring and silver tip located inside the plug do not fly out when you remove the cap. Check fuse and replace if necessary.*
- **The radar detector did not alert when passing an officer.**
 - Not all police officers are equipped with a radar/laser device, or it may not have been in use at that time.
- **The radar detector shows erratic or frequent false alerts.**
 - Use FILTER-NORMAL or FILTER-HIGH mode.
- **The radar detector does not alert early enough.**
 - Make sure the radar detector is level to the road.
 - Make sure the radar window or the top laser receiver is not obstructed. Move the radar detector if necessary.

SERVICE AND REPLACEMENT

If you have questions, missing parts or comments, please call PNI Corporation's customer service department at (888) 422-6672 (toll-free within the U.S.) or at (707) 566-2260 between 8:00 a.m. and 5:00 p.m. (PST) Monday through Friday, or e-mail to CustomerService@pnicorp.com.

If you wish replacement or repair of a defective product, please follow these procedures:

1. Obtain a Return Merchandise Authorization (RMA) number by calling us at (888) 422-6672 (toll-free within the U.S.) or at (707) 566-2260 between 8:00 a.m. and 5:00 p.m. (PST) Monday through Friday. We can also be reached by:
 - Fax: (707) 566-2261
 - E-mail: returns@pnicorp.com
 - Please note that RMA numbers are valid for 30 days only.
2. Obtain a proof of purchase, such as a mechanical reproduction of your sales receipt (original receipts cannot be returned). Proof of purchase must show printed date of purchase, model number, and place of purchase. If you cannot provide a proof of purchase, or if the warranty period has ended, the product may be returned to you without being tested and/or there will be a charge for replacement of your product.
3. Pack the product securely to prevent damage in transit. Please send the entire product, including all accessories. Alterations to the product or its accessories will void your warranty. Include your proof of purchase and a description of the problem.
4. Write the issued RMA number on the outside of your package and address it to:

PNI Corporation
Attn: RMA# [insert the RMA # provided]
5464 Skylane Boulevard, Suite A
Santa Rosa, CA 95403-1084

SERVICE AND REPLACEMENT

5. Type or print the name and address where the replacement should be delivered.
6. Ship prepaid and insured via traceable carrier such as United Parcel Service (UPS), FedEx Parcel Service, or Priority Mail to avoid loss in transit.

Once we receive your documents and product, we will repair or replace the product for you. Please allow two to three weeks from receipt of your returned product to delivery of your replacement.

Silver Bullet RX7500 • FCC ID QJ3-IFS-11875

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.

In addition, any changes or modifications to this product, which are not expressly approved by PNI Corporation in writing, could void the user's authority to operate this product.

WARRANTY INFORMATION

LIMITED WARRANTIES; LIMITATION OF LIABILITY

FOR SENSORO RADAR/LASER DETECTOR

Model: Silver Bullet RX7500

PNI Corporation ("PNI") manufactures its products from parts and components that are new or equivalent to new in performance, and warrants to the original user that this product will be free of defects in workmanship and materials for one (1) year from the date of purchase.

This warranty does not cover wear and tear due to normal use, or damage to the product as the result of improper usage, neglect of care, alteration, accident, or unauthorized repair.

If the product is found by PNI to be defective, PNI's entire liability and your exclusive remedy for breach of warranty shall be that PNI will repair or replace the product and return the product or its replacement to you at no charge, provided that you ship the product to PNI at your expense with a description of the defect and subject to the other conditions of this warranty. Should the product prove to be irreparable, PNI may substitute an equivalent product of the same or similar style and of a value not in excess of the original purchase price of your instrument.

PNI warrants the repaired or replacement product to be free from defects in material and workmanship on the same terms as the product originally purchased.

This warranty will be void if the products, serial number, or other identification marks have been defaced, damaged, or removed. This warranty does not apply to the battery necessary to operate the product.

This warranty is extended to the original retail purchaser only and may not be transferred or assigned to subsequent owners. In order to validate your warranty, you must provide proof of purchase acceptable to

WARRANTY INFORMATION

PNI together with the product shipped for warranty repair/replacement.

Products returned to PNI must be pre-authorized by PNI with an RMA (return material authorization) number marked on the outside of the package. Please refer to the Service and Replacement section for PNI Corporation contact information.

THE FOREGOING WARRANTY IS GIVEN IN LIEU OF AND PNI DISCLAIMS ALL OTHER WARRANTIES OR REPRESENTATIONS, EXPRESSED OR IMPLIED, IN FACT OR IN LAW, WITH RESPECT TO THIS PRODUCT, INCLUDING, BUT NOT LIMITED TO, (1) THE IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE, OR (2) THAT USE OF THE PRODUCT WILL BE UNINTERRUPTED AND ERROR FREE.

PNI shall have no liability for any indirect or speculative damages (including, but not limited to, consequential, incidental, and special damages) relating to the use of or inability to use this product, whether arising out of contract, negligence, tort, or under any warranty theory, or for infringement of any other party's intellectual property rights, irrespective of whether PNI had advance notice of the possibility of any such damages, including, but not limited to, loss of use, revenue, or profit. In no event shall PNI's total liability for all claims regarding the product exceed the price paid for the product. PNI neither assumes nor authorizes anyone to assume for it any other liabilities.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.