

# Uniden®

## LRD850

### LONG RANGE Radar/Laser Detector

#### Detailed User's Manual



## **CUSTOMER CARE**

At Uniden®, we care about you!

If you need assistance, please do NOT return this product to your place of purchase. Our customer care specialists are available to serve you.

***Save your receipt/proof of purchase for warranty.***

Quickly find answers to your questions by:

1. Reading your owner's manual.
2. Visiting our customer support website at [www.uniden.com](http://www.uniden.com).
3. Calling our customer care specialists at 1-800-297-1023.

***Images in this manual may differ slightly from your actual product.***

DISCLAIMER: Radar detectors are illegal in some states. Some states prohibit mounting any object on your windshield. Check applicable law in your state and any state in which you use the product to verify that using and mounting a radar detector is legal. Uniden radar detectors are not manufactured and/or sold with the intent to be used for illegal purposes. Drive safely and exercise caution while using this product. Do not change settings of the product while driving. Uniden expects consumer's use of these products to be in compliance with all local, state, and federal law. Uniden expressly disclaims any liability arising out of or related to your use of this product.

# CONTENTS

CUSTOMER CARE .....	2
<b>FEATURES .....</b>	<b>5</b>
<b>INSTALL AND TURN ON LRD850 .....</b>	<b>5</b>
INSTALL.....	5
Windshield .....	5
Dashboard.....	5
TURN ON .....	5
<b>WHAT'S IN THE BOX .....</b>	<b>6</b>
<b>PARTS OF THE LRD850 .....</b>	<b>6</b>
NON-KEY ELEMENTS .....	7
<b>MENU SYSTEM.....</b>	<b>7</b>
<b>BASIC OPERATIONS .....</b>	<b>8</b>
<b>FEATURE DETAILS .....</b>	<b>8</b>
HIGHWAY VS CITY MODE .....	8
POP MODE.....	9
SCAN DISPLAY .....	9
ALARM PRIORITIES.....	9
<b>MAINTENANCE .....</b>	<b>9</b>
MAINTAINING THE EQUIPMENT .....	9
UPDATING THE FIRMWARE .....	9
<b>TROUBLESHOOTING.....</b>	<b>9</b>
<b>SPECIFICATIONS .....</b>	<b>10</b>
<b>ONE-YEAR LIMITED WARRANTY .....</b>	<b>11</b>



# UNIDEN

## LONG RANGE RADAR/LASER DETECTOR

### DETAILED USER'S MANUAL

#### LRD850

#### FEATURES

- Super Long Range Laser Radar Detection
- Voice Notifications
- Radar band frequency displays
- Easy to read OLED display
- Advanced K band filter
- Invisible to VG-2™ and Spectre I/IV/IV+™ radar detectors; Spectre I and IV undetectable
- Signal Strength Meter displays Vehicle Battery Voltage.

#### INSTALL AND TURN ON LRD850

You can mount the LRD850 on the windshield (bracket included) or on the dashboard (hook and loop tape included).

#### INSTALL

##### ***Windshield***

When you mount the LRD850 on the windshield, mount it in the middle of the windshield between the driver and passenger. Be sure there are no obstructions and that there is a clear view through the back window.

1. Attach the rubber suction cups to the bracket and push the cups firmly onto the windshield.
2. Slide the unit onto the bracket until it clicks into place.
3. Plug the power cord into the LRD850 and plug the cigarette lighter adapter into the vehicle's cigarette lighter.
4. The LRD850 automatically turns on and runs through a self test cycle.

***Release the LRD850 from the bracket by pressing the Eject key on top of the detector.***

##### ***Dashboard***

The same types of mounting requirements for the windshield apply for mounting the unit on the dashboard.




1. Attach the unit to the dashboard using the hook and eye fastener tape.
2. Plug the power cord into the LRD850 and plug the cigarette lighter adapter into the vehicle's cigarette lighter.
3. The LRD850 automatically turns on and runs through a self test cycle.

***Pull the bracket from the dashboard, separating the hook and loop tape.***

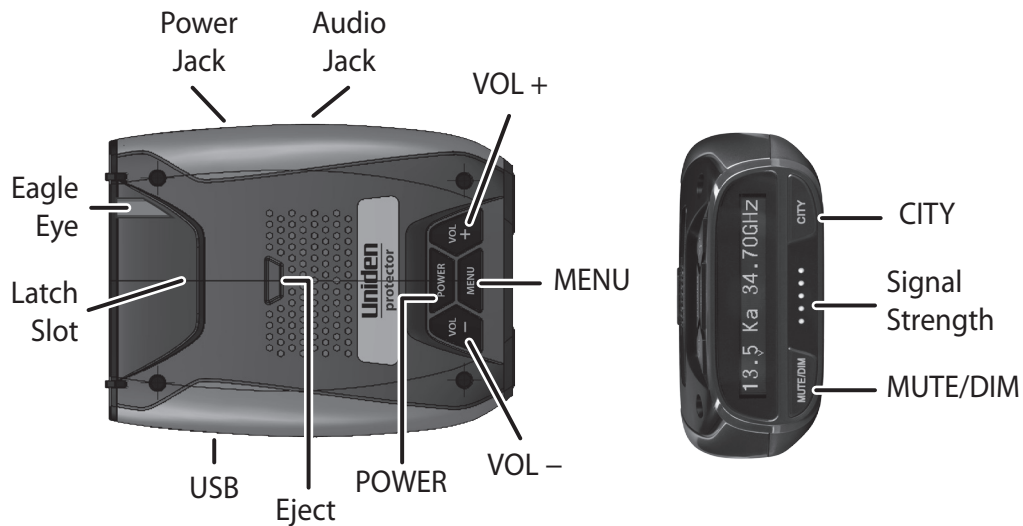
#### TURN ON

1. Inert the power cord's RJ45 connector into the LRD850s power jack.
2. Insert the power cord's cigarette lighter adapter into the vehicle's cigarette lighter port.
3. The LRD850 automatically turns on and runs through a systems check.

## WHAT'S IN THE BOX

	
<p>LRD850 Radar Detector</p>	<p>12V DC Power Cord with RJ45 Connection</p>
	<p>Not Shown:</p> <p>Hook and Loop Fastener Tape Spare Fuse for DC Power Cord Quick Start Guide</p>
<p>Windshield Mounting Bracket</p>	

## PARTS OF THE LRD850



KEY	PRESS TO...	PRESS AND HOLD TO...
<b>POWER</b>	Turn LRD850 on and off.	NA
<b>VOL +</b>	<ul style="list-style-type: none"> <li>Turn volume up (6 levels).</li> <li>In Menus, go to next item.</li> </ul>	NA
<b>VOL -</b>	<ul style="list-style-type: none"> <li>Turn volume down (6 levels).</li> <li>In Menus, go to previous item.</li> </ul>	
<b>MENU</b>	<ul style="list-style-type: none"> <li>Access the Menu system.</li> <li>In the Menu system, press to cycle through options for the current menu item.</li> </ul>	Exit the Menu system.
<b>MUTE/DIM</b>	<p><b>MUTE</b></p> <ul style="list-style-type: none"> <li><b>MUTE on</b> - Press <b>MUTE/DIM</b> to mute an alarm. Returns to normal operation 10 seconds after the alert ends or if a different band is detected during Mute mode. <i>Mute On</i> displays for a few seconds.</li> <li><b>MUTE off</b> - Press <b>MUTE/DIM</b> to restore audible alarms before the 10 second automatic mute time-out.</li> </ul>	<p><b>DIM</b> - Changes the OLED, Key Backlight, and Strength LED intensity:</p> <ul style="list-style-type: none"> <li>Bright</li> <li>Dim</li> <li>Dark</li> </ul>

KEY	PRESS TO...	PRESS AND HOLD TO...
<b>CITY</b>	Press to change modes between HIGHWAY and CITY.	NA

## NON-KEY ELEMENTS

ELEMENT	WHAT IT DOES
Eagle Eye	Provides a 360° monitoring radius.
Latch Slot	Insert the bracket latch into this slot.
Mini USB	Provides PC connection for data updates.
Audio Jack	Plug in headset.
Eject	Press to release the bracket latch.
Power Jack	Plug the 12V Power Cord here.
Signal Strength	Displays how strong the signal received is (5 levels).

## MENU SYSTEM

Menus let you set up the system to your own requirements. You can select the backlight brightness, turn different bands on and off, and set specific items such as auto mute.

Press **MENU** to access the Menu system. The screen displays the selection's current status. For example, if you press **MENU** and the screen displays *Voice: ON*, you have the option of turning Voice to OFF.

Use the following keys to navigate the menus:

- **MENU**: Change a menu item setting (press and hold to exit the Menu system).
- **VOL +** : Go to the next Menu item.
- **VOL -** : Go to the previous Menu item.

MENU ITEM	WHAT IT DOES	SETTINGS
Voice	Turns voice alert on or off under the following conditions: <ul style="list-style-type: none"> <li>• Type of radar/laser</li> <li>• Band alarms</li> </ul>	On Off
X Band	Turn off to have the detector ignore X Band frequencies (Highway only).	On Off
K Band	Turn off to have the detector ignore K Band frequencies.	On Off
Ka Band	Turn off to have the detector ignore Ka Band frequencies.	On Off
Laser	Turn off to have the detector ignore lasers.	
POP Mode	Detects POP transmissions (very brief transmissions, too fast for some detectors to hear).	On Off
K Band Filter	Filters noise from the K band to prevent false detections.	On Off
Display	Lets you set the following	
	• Voltage	V
	• Off	

MENU ITEM	WHAT IT DOES	SETTINGS
Auto Mute	Auto Mute reduces alarm level to 1 after 3 seconds and returns to normal operation (Auto Mute = OFF) 10 seconds after the alert ends. If the same alarm sounds within the 10 second period, Auto Mute remains at level 1. The unit returns to normal operation (Auto Mute = OFF) if a different band is detected during Auto Mute = ON mode.	On Off
Backlight	Turns the backlight on and off. <b><i>Press and hold MUTE/DIM to select a brightness level.</i></b>	On Off
BAT Warning	Issues a warning if the vehicle battery power drops below 11V.	On Off
Selt Test	Runs a self diagnostic test on the unit to check for faults.	On Off
Factory Reset	Resets all settings to the factory defaults. <b><i>There is no confirmation request for reset.</i></b>	NA
Firmware Version	Displays the latest firmware version.	NA
EXIT	Closes the Menu system.	NA

## BASIC OPERATIONS

HOW DO I ...?	TRY THIS...
Turn on the LRD850	Press <b>POWER</b> . The unit turns on and runs through an initial self-check. It displays the different bands and their settings. <b><i>The LRD850 turns on automatically when you start the vehicle.</i></b>
Adjust the volume	<ul style="list-style-type: none"> <li>Press <b>VOL +</b> to increase volume. The unit beeps, announces "Volume (0 - 6)," and displays a number increase.</li> <li>Press <b>VOL -</b> to decrease volume. The unit beeps, announces "Volume (0 - 6)," and displays a number decrease.</li> </ul>
Mute alarm volume during the alert	Press <b>MUTE/DIM</b> during an audio alarm to mute it. (This is especially useful in situations where the alert may be prolonged, such as at red lights.)
Change the screen's brightness	Press and hold <b>MUTE/DIM</b> . The LRD850 announces the brightness level (Bright, Dim, or Dark) as it changes to that level. Press and hold the keys again to cycle between the brightness levels.
Turn bands on and off	Press <b>MENU</b> and cycle through the menu options until the band you want to turn off displays. Press <b>MENU</b> again to change that band's status.
Change Highway to City and back	Press <b>CITY</b> for at least 1 second to alternate between HIGHWAY and CITY setting.
Update the firmware	Refer to LRD850 Firmware Update Guide on <a href="http://www.uniden.com">www.uniden.com</a> for details.

## FEATURE DETAILS

### HIGHWAY VS CITY MODE

Radar detectors operate with various sensitivity levels. These levels determine the types of signals and signal ranges (bands) detected. Highway mode is the most sensitive level while City mode is the least sensitive. If the X band is left on in City mode, a radar detector can pick up many X band signals (such as garage door openers) that generate false alerts. The LRD850 turns off the X band for City mode. When you are on the highway, there is less chance of picking up X band false alerts, so the LRD keeps the X band on.



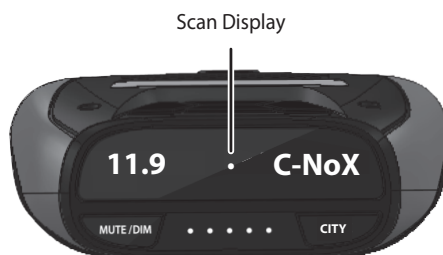
Press **CITY** to alternate between HIGHWAY and CITY mode.

## POP MODE

In POP mode, the LRD850 can detect short burst from radars that are too fast for many other detectors to catch. You can turn POP mode on and off.

## SCAN DISPLAY

A small dot on the screen indicates that the unit is scanning for **signals**. This dot travels back and forth in the middle of the screen.



Elements on the screen vary according to what you turn on and off in the Menu system

## ALARM PRIORITIES

- Laser signal
- X, K, Ka Band signal
- Vehicle Low Battery Voltage Warning

## MAINTENANCE

### MAINTAINING THE EQUIPMENT

The LRD850 requires very little physical maintenance. Wipe it with a soft cloth to keep dust from accumulating. Check the power cord connections to keep them clean and free of corrosion.

### UPDATING THE FIRMWARE

Uniden recommends that you update your LRD850's firmware periodically. Go to [www.uniden.com](http://www.uniden.com) to check if you have the latest firmware. If you need to update your firmware, refer to LRD850 Firmware Update Guide on [www.uniden.com](http://www.uniden.com) for details.

## TROUBLESHOOTING

IF...	TRY THIS...
The unit won't turn on	Check the connections. Be sure they are all secure.
No display or audio.	<ul style="list-style-type: none"> <li>• If no display, check the connections. Be sure they are all secure.</li> <li>• If no audio, check if Voice is turned off.</li> </ul>
The unit alarms when the vehicle hits bumps.	Check the connections. Be sure they are all secure.
The unit alarms briefly in the same location but no radar source was in view.	There may be a motion sensor or house alarm in use within range.
The LRD850 did not alert when a police car was in view.	<ul style="list-style-type: none"> <li>• The officer may not have radar/laser units turned on.</li> <li>• Check that the band is turned on. Press <b>MENU</b> and cycle through the options to get to the bands. If the band is turned off, the OLED will show OFF. Turn the band on.</li> </ul>

IF...	TRY THIS...
The vehicle starts but the LRD850 does not turn on.	<ul style="list-style-type: none"> <li>• Verify that the power cord is securely connected to the unit and inserted into the cigarette lighter jack.</li> <li>• Change the fuse in the power cord. Unscrew the cigarette lighter jack to access the fuse.</li> </ul>

## SPECIFICATIONS

Receiver Type:		Antenna Type:	
Radar	Double Conversion Superheterodyne Self-Contained Antenna	Radar	Linear Polarized E-vector Vertical
Laser	Pulsed Laser Signal Receiver	Laser Front	Convex Condenser Lens
Frequency:		Laser Back	Concave Condenser Lens
X	10.525 GHz	Dimensions	110.00 mm (D) x 69.00 mm (W) x 29.50 mm (H)
K	24.150 GHz	Weight	6 oz (170g)
Ka	33.400 - 36.000 GHz	Operating Temp.	-4° to +185° F (Radar/Laser) -20° to +85° C (Radar/Laser)
Laser	800 nm - 1100 nm	Storage Temp.	-22° to +203° F (Radar/Laser) -30° to +95° C (Radar/Laser)
Detector Type:		Operating Power Source	DC 11.0 to 16.0 V
Radar	Scanning Frequency Discriminator	USB Interface	USB Specification 2.0/1.1
Laser	Pulse Width Discriminator		
Alarm Type	Beep (Detected Band and Signal strength)		

## **FCC/Industry Canada Information**

FCC: AMWLRD950

ICC: 513C-LRD950

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.

Unauthorized changes or modifications to this equipment may void compliance with the FCC Rules. Any change or modification must be approved in writing by Uniden. Changes or modifications not approved by Uniden could void the user's authority to operate the equipment.

L'appareil est conforme aux normes d'Industrie Canada. Son fonctionnement est soumis aux deux conditions suivantes : (1) Ce dispositif ne doit pas causer d'interférences et (2), il doit pouvoir accepter les interférences, incluant celles pouvant nuire à son fonctionnement normal.

Tous les changements apportés à cet appareil, s'ils ne sont pas expressément approuvés par Uniden ou toute utilisation de celui-ci d'une autre manière que celle décrite dans ce guide peut annuler votre autorisation de le faire fonctionner.

## **ONE-YEAR LIMITED WARRANTY**

***Keep your receipt! Proof of purchase is required for warranty service.***

### **WARRANTOR: UNIDEN AMERICA CORP. ("Uniden")**

**ELEMENTS OF WARRANTY:** Uniden warrants, for one year, to the original retail owner, this Uniden Product to be free from defects in materials and craftsmanship with only the limitations or exclusions set out below.

**WARRANTY DURATION:** This warranty to the original user shall terminate and be of no further effect 12 months after the date of original retail sale. The warranty is invalid if the Product is (A) damaged or not maintained as reasonable or necessary, (B) modified, altered, or used as part of any conversion kits, subassemblies, or any configurations not sold by Uniden, (C) improperly installed, (D) serviced or repaired by someone other than an authorized Uniden service center for a defect or malfunction covered by this warranty, (E) used in any conjunction with equipment or parts or as part of any system not manufactured by Uniden, or (F) installed or programmed by anyone other than as detailed by the Operating Guide for this product.

**STATEMENT OF REMEDY:** In the event that the product does not conform to this warranty at any time while this warranty is in effect, warrantor will repair the defect and return it to you without charge for parts, service, or any other cost (except shipping and handling) incurred by warrantor or its representatives in connection with the performance of this warranty. THE LIMITED WARRANTY SET FORTH ABOVE IS THE SOLE AND ENTIRE WARRANTY PERTAINING TO THE PRODUCT AND IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES OF ANY NATURE WHATSOEVER, WHETHER EXPRESS, IMPLIED OR ARISING BY OPERATION OF LAW, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR PAYMENT OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow this exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

**LEGAL REMEDIES:** This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. This warranty is void outside the United States of America.

**PROCEDURE FOR OBTAINING PERFORMANCE OF WARRANTY:** If, after following the instructions in this Operating Guide, you are certain that the Product is defective, pack the Product carefully (preferably in its original packaging). Include evidence of original purchase and a note describing the defect that has caused you to return it. The Product should be shipped freight prepaid, by traceable means, or delivered, to warrantor at:

Uniden America Corporation

C/O Saddle Creek

743 Henrietta Creek Rd., Suite 100

Roanoke, TX 76262

(800) 297-1023, 8 a.m. to 4:30 p.m., Central, Monday through Friday

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Spectre I and Spectre IV are trademarks of Stealth Micro Systems Pty. Ltd.

VG2 is a trademark of TechniSonic Industries LTD.

