Uniden®

R1
LONG RANGE Radar/Laser Detector

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.

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.

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.

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UNIDEN

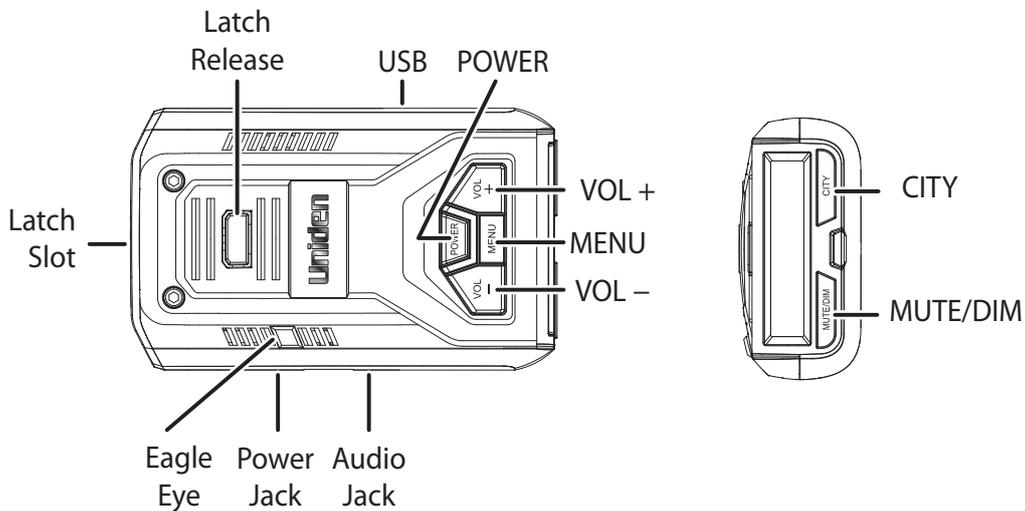# LONG RANGE RADAR/LASER DETECTOR
USER'S MANUAL

R1

FEATURES

• Super Long Range Laser Radar Detection

• Voice Notifications

• Radar band frequency displays

• Easy to read OLED display (multicolors)

• Advanced K and Ka band filters

• Invisible to VG-2™ and Spectre I/IV/IV+™ radar detectors; Spectre I and IV undetectable

• Displays Signal Strength and Vehicle Battery Voltage

WHAT'S IN THE BOX

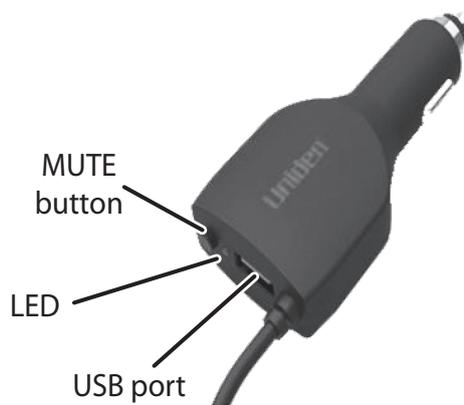|	
R1 Radar Detector	12V DC Power Cord with RJ45 Connection
	Not Shown: Hook and Loop Fastener Tape
Windshield Mounting Bracket (Single and Double Suction Cup)	

PARTS OF THE R1

KEY	PRESS TO...	PRESS AND HOLD TO...
POWER	Turn R1 on and off.	NA
VOL +	• Turn volume up (7 levels: 0 - 6). • In Menus, go to next item.	NA
VOL –	• Turn volume down (7 levels: 0 - 6). • In Menus, go to previous item.	
MENU	• Access the Menu system. • In the Menu system, press to cycle through and select options for the current menu item.	Exit the Menu system.
MUTE/DIM	MUTE (See page 10 to have the unit automatically mute the alarm after 3 seconds.) • MUTE on - Press **MUTE/DIM** to mute an alarm. Returns to normal operation 10 seconds after the alert ends or if a different band is detected during Mute mode. *Mute On* displays for a few seconds. • MUTE off - Press **MUTE/DIM** to restore audible alarms before the 10 second automatic mute time-out.	DIM - Changes the LCD, Key Backlight, and Strength LED intensity: • Bright • Dim • Dimmer • Dark (Dark is off unless there is an alert.) • Off (Off regardless of whether or not there is an alert.)
CITY	Press to change modes between HIGHWAY, CITY, and CITY 2.	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).

POWER CONNECTOR

MUTE button

LED

USB port

ELEMENT	WHAT IT DOES
MUTE button	Press the mute button to mute an alarm. It returns to normal operation 10 seconds after the alert ends or if a different band is detected during Mute mode. *Mute On* displays on the R1 for a few seconds. See page 10 to have the unit automatically mute the alarm after 3 seconds.

ELEMENT	WHAT IT DOES
LED (Red)	Off: Power is off. Steady on: Power is on. Flashing: Receiving an alert. The faster it flashes, the stronger the signal.
USB Port	Use this USB port to charge mobile devices.

INSTALL AND TURN ON R1

You can mount the R1 on the windshield (bracket included) or on the dashboard (hook and loop tape included).

INSTALL

Windshield

When you mount the R1 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 R1 and plug the cigarette lighter adapter into the vehicle's cigarette lighter.
4. The R1 automatically turns on and runs through a self test cycle.

Release the R1 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.

Do not put the tape over vents. Always leave vents uncovered.

1. Attach the unit to the dashboard using the hook and loop fastener tape.
2. Plug the power cord into the R1 and plug the cigarette lighter adapter into the vehicle's cigarette lighter.
3. The R1 automatically turns on and runs through a self test cycle.

Pull the unit from the dashboard, separating the hook and loop tape.

TURN ON

1. Inert the power cord's RJ45 connector into the R1's power jack.
2. Insert the power cord's cigarette lighter adapter into the vehicle's cigarette lighter port.
3. The R1 automatically turns on and runs through a systems check.

MENU SYSTEM

Menus let you set up the system to your own requirements. You can 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
Highway	Changes band sensitivity as follows: - Highway - Full Sensitivity - City - X and K band sensitivity reduced. Ka band sensitivity same as Highway. - City 2 - X band detection off; K band sensitivity reduced. Ka band sensitivity same as Highway.	Highway (Default) City City 2

MENU ITEM	WHAT IT DOES	SETTINGS
Voice	Turns voice alert on or off under the following conditions: • Type of radar/laser • Band alarms	On (Default) Off
X Band	Turn off to have the detector ignore X band frequencies. Turn on for X band sensitivity as follows: · Highway: Full sensitivity · City: X band sensitivity reduced · City 2: X band off	On Off (Default)
K Band	Turn off to have the detector ignore K band frequencies.	On (Default) Off
Ka Band	Turn off to have the detector ignore Ka band frequencies.	On (Default) Off
Laser	Turn off to have the detector ignore lasers.	On (Default) Off
K POP	Detects K POP transmissions (very brief transmissions, too fast for some detectors to hear).	On Off (Default)
Ka POP	Detects Ka POP transmissions (very brief transmissions, too fast for some detectors to hear).	On Off (Default)
K Filter	Filters noise from the K band to prevent false detections.	On Off (default)
Ka Filter	Filters noise from the Ka band to prevent false detections.	On Off (default)
TSF	Traffic Sensor Filter. Prevents false alarms caused by traffic monitoring radar systems.	On Off (Default)
K Narrow/ Wide	K Narrow scans for K radar guns used in the US only and reduces false alarms.	K Narrow K Wide (Default)
Ka Narrow/ Wide	Ka Narrow scans for Ka radar guns used in the US only and reduces false alarms. Ka Narrow also provides a fast response to Ka POP radar guns. Ka Wide scans Super Wide Ka band.	Ka Narrow (Default) Ka Wide
Threat	Displays if more than one radar signal is detected at the same time. The signal with the strongest radar signal is considered the main signal; the other signals are displayed on the left side (See page 10).	All Threat On All Threat Off (Default)
Color	Select screen text color.	Blue (Default) Amber Green Pink Grey Red
Auto Mute	Auto Mute reduces the alarm volume after 3 seconds at the current volume level. See page 10 for details.	On (Default) Off
Backlight	Turns the front key backlight on and off. ***Press and hold MUTE/DIM to select a brightness level.***	On (Default) Off
BAT Warning	Sounds a warning tone if the vehicle battery power drops below 11V.	On Off (Default)
Self Test	Runs a self diagnostic test on the unit to check for faults.	On (Default) Off

MENU ITEM	WHAT IT DOES	SETTINGS
Factory Reset?	Resets all settings to the factory defaults. ***There is no confirmation request for reset.***	Press MENU to reset to factory defaults.
Version	Displays the latest firmware version.	NA
Exit	Closes the Menu system.	NA

BASIC OPERATIONS

HOW DO I ...?	TRY THIS...
Turn on the R1	Be sure the unit is connected to power and then press **POWER**. The unit turns on and runs through an initial self-check. It displays the different bands and their settings. ***The*** R1 ***turns on automatically when you start the vehicle.***
Adjust the volume	• Press **VOL +** to increase volume. The unit beeps and displays a number increase. • Press **VOL –** to decrease volume. The unit beeps and displays a number decrease.
Mute alarm volume during the alert	Press **MUTE/DIM** 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 **MUTE/DIM**. The R1 announces the brightness level (Bright, Dim, Dimmer, Dark, or off) as it changes to that level. Press and hold the key again to cycle between the brightness levels.
Turn bands on and off	Press **MENU** and cycle through the menu options until the band you want to turn off displays. Press **MENU** again to change that band's status.
Change Highway to City/City 2 and back	Press **CITY** for at least 1 second to alternate between Highway, City, and City 2 setting.
Update the firmware	Refer to www.support.uniden.com for details.

FEATURE DETAILS

HIGHWAY VS CITY MODE

Uniden's R1 radar detector operates in three different frequency (X, K, and Ka band) sensitivity modes - Highway, City, and City 2. Highway mode is the most sensitive, with maximum detection ranges while on the highway or open road. City and City 2 are on the lower end of the detection scale for city driving. These two modes reduce sensitivity so that false signals (such as from automatic door openers) are filtered out.

Under factory default conditions (X band = off on all bands, K and Ka bands = on), the band sensitivities are:
· Highway: X band off; K and Ka band full sensitivity.
· City: X band off and K band sensitivity reduced; Ka band full sensitivity.
· City 2: X band off. K band sensitivity reduced. Ka full sensitivity.

Turn X band on in the menus with K and Ka bands still on (default); the band sensitivities are:
· Highway: X, K, and Ka band full sensitivity.
· City: X and K band sensitivity reduced; Ka band full sensitivity.
· City 2: X band off. K band sensitivity reduced. Ka band full sensitivity.

If a band is turned off through the menus, it is off in all modes; however, X band is always off in City 2 mode, regardless of menu setting.
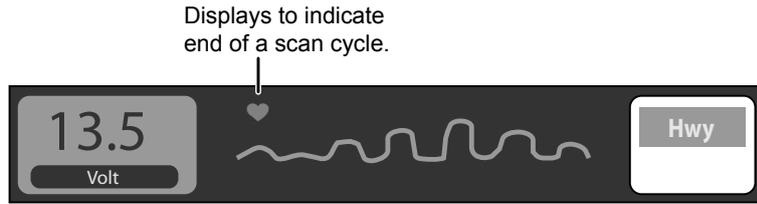
Press **CITY** on the front of the unit to alternate between Highway, City, and City 2 mode.

POP MODE

In POP mode, the R1 can detect short burst from radars that are too fast for many other detectors to catch. You can turn POP mode on and off for the K and Ka bands.
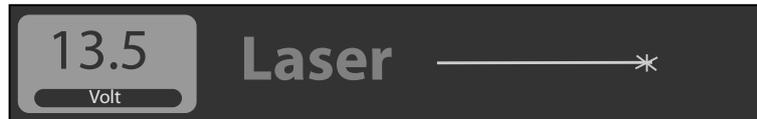
SCAN DISPLAY

The LCD uses a curved line to indicate scanning is in progress. A heart icon indicates the end of one scan cycle and the beginning of another.
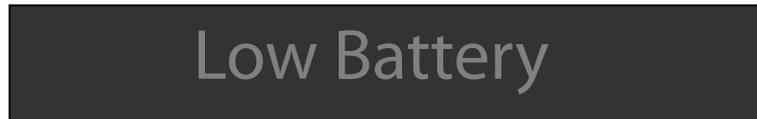
Displays to indicate
end of a scan cycle.

13.5
Volt

Hwy

ALARM PRIORITIES

· Laser signal

13.5
Volt

Laser ———————— ✳

· X, K, Ka band signal

12.8
Volt

Ka 33.800 GHz

Signal strength indicator (1 - 5)

· Vehicle Low Battery Voltage Warning

Low Battery

THREAT

The R1 detects up to 4 radar band signals (threats) at a single time. The strongest rader signal is designated as the Priority threat, and its frequency displays on the LCD. The other three threats (signals) are indicated in the left side of the display. In the following example, 2 K band, 1 X band, and 1 Ka band threats are detected.

K **24.120** GHz

X   K   Ka

AUTO MUTE

When the R1 detects a signal, it sounds an alarm at the current volume level. To make the alarm quieter, turn on Auto Mute. This will reduce the volume to VOL level 1 after the first 3 seconds. Auto Mute ends 10 seconds after the alarm ends unless:

· The same signal is detected within that 10 second period; then, Auto Mute stays on.
· A different band signal is detected during that 10 second period; then, Auto Mute turns off and then back on at the current volume level.

Auto Mute does not apply to Laser Alert.

MAINTENANCE

MAINTAINING THE EQUIPMENT
The R1 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 R1's firmware periodically. Go to www.support.uniden.com, find your model, and check if you have the latest firmware. Follow the instructions on the website to update your firmware if you need to. Reset to factory defaults through the Menus after the new firmeware is installed.

TROUBLESHOOTING

IF...	TRY THIS...
The unit won't turn on	Check the connections. Be sure they are all secure.
No display or audio.	• If no display, check the connections. Be sure they are all secure. • If no audio, check if Voice is turned off.
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 R1 did not alert when a police car was in view.	• The officer may not have radar/laser units turned on. • Check that the band is turned on. Press **MENU** and cycle through the options to get to the bands. If the band is turned off, the LCD will show OFF. Turn the band on.
The vehicle starts but the R1 does not turn on.	• Verify that the power cord is securely connected to the unit and inserted into the cigarette lighter jack. • Change the fuse in the power cord (spare fuse not included). Unscrew the cigarette lighter jack to access the fuse.

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	4.8 oz (135 g)
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: AMWUA1702

FCC Compliance

This device complies with Part 15 of the FCC rules. Operation is subjected 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.

Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

Avis de conformité à la FCC : Ce dispositif a été testé et s'avère conforme à l'article 15 des règlements de la Commission fédérale des communications (FCC). Ce dispositif est soumis aux conditions suivantes: 1) Ce dispositif ne doit pas causer d'interférences nuisibles et; 2) Il doit pouvoir supporter les parasites qu'il reçoit, incluant les parasites pouvant nuire à son fonctionnement.

Tout changement ou modification non approuvé expressément par la partie responsable pourrait annuler le droit à l'utilisateur de faire fonctionner cet équipement.

IC Compliance

This device complies with Industry Canada license-exempt RSS standard(s).Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

Cet appareil est conforme aux normes RSS exemptes de licences d'Industrie Canada. Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférences nuisibles et (2), il doit pouvoir accepter les interférences, incluant celles pouvant nuire à son fonctionnement normal.

Tout changement ou modification non approuvé expressément par la partie responsable pourrait annuler le droit à l'utilisateur de faire fonctionner cet équipement.

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 war-ranty 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 WAR-RANTY 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

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