Uniden®

R4
LONG RANGE Radar/Laser Detector

User's Manual

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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:

- Reading this User's Manual.
- 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
R4

R4 OVERVIEW

Uniden's R4 is a top of the line Radar Detector with a built-in GPS feature. With the R4, you can mark geographical points where you commonly encounter radar transmissions. These can be school zones, red-light cameras, and places where police frequently monitor traffic. You can mark these points so the detector will announce "User mark ahead" when you approach them. Among other announcements, the Voice Notification feature lets you know when you are approaching a radar and what type of radar it is (red light, speed, etc).

FEATURES

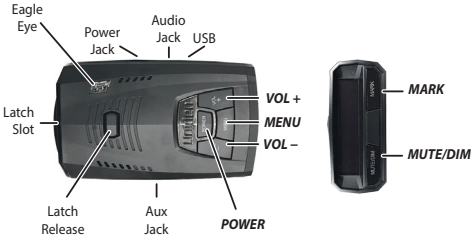
- Super Long Range Laser Radar Detection for X, K, Ka, POP, MRCD/T, and Gatso RT3/4.
- Remote keypad (Optional)
- MRCD/T (Alert priority: Laser, MRCD, Ka, K, X) with customizable tones
- Quiet Ride MRCD/T on and off
- Voice Notifications
- Radar band frequency displays
- GPS for Red Light and Speed camera locations
- Up to 1750 GPS lockouts (Mute Memory points)
- Easy to read OLED display
- User Mark alarm with set and voice notification
- Advanced K and Ka band filters
- Undetectable Spectre I and IV
- Displays Signal Strength and Vehicle Battery Voltage
- Max. Speed Warning System
- Red light camera on/off and point delete
- X, K, MRCD/T, Ka, and Laser band selectable alert tones
- K, Ka Bogey tones (Alert tones 1 - 5)
- X, K, and Ka band user-defined sensitivity levels in Advanced mode
- Auto mute volume levels (Off, On: 0 - 7)
- Ka Frequency Voice Alert

- Auto Dim
- POI Database Save/Update (Maximum: 20,000 points)
- POI Passchime On/Off
- 8 Compass Directions
- Laser Gun ID
- Overspeed Alert Mute
- Keep K Block Filter ON to block K band monitor systems
- Mute Memory save, alarm
- Volume Adjust (0 - 8)
- Auto Mute Memory
- Two Low Noise Amplifiers (LNA)

WHAT'S IN THE BOX

R4 Radar Detector	12V DC Cigarette Adapter with Mute Key and RJ11 Jack	Single-Suction Bracket	Dual-Suction Bracket
Not Shown: Hook and Loop Fastener Tape Carry Case Data Cable Owner's Manual			

PARTS OF THE R4



KEY	PRESS TO...	PRESS AND HOLD TO ...
POWER	Turn R4 on and off.	NA
VOL +	Turn volume up (9 levels: 0 - 8; Default = 4). In Menus, go to next item.	Quickly turn volume up or down.
VOL –	Turn volume down (9 levels: 0 - 8; Default = 4). In Menus, go to previous item.	
MENU	Access the Menu system. In Menus, press to cycle through options for the current menu item.	When in Menu mode, exit the Menu system. When NOT in Menu mode, changes modes between Highway, City, Auto, and Advanced.

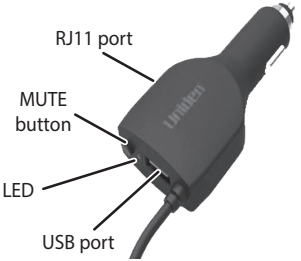
KEY	PRESS TO...	PRESS AND HOLD TO ...
MUTE/ DIM	MUTE MUTE on - Press ***MUTE/DIM*** to mute an alarm. Returns to normal operation 10 seconds after the alert ends or if a different band is detected during Mute mode. *Mute On* displays for a few seconds. MUTE off - Press ***MUTE/DIM*** to restore audible alarms before the 10 second automatic mute time-out. MUTE MEMORY Save a Mute Location (Mute Memory) - press ***MUTE/DIM*** again while Mute On displays to save that GPS location and frequency to memory. Mute Memory displays on the screen. R4 stores up to 1750 Mute Memory points. The R4 shares 2,000 points between Mute Memory and User Marks as set in the Memory Quota menu. Delete Mute Memory - Press ***MUTE/ DIM*** while *Mute Memory* displays; the R4 displays a delete confirmation message. Press ***MUTE/DIM*** again to confirm. MUTE RED LIGHT CAMERA VOICE ALERT Mute the voice alert for a red light camera alarm. Press ***MUTE/DIM*** while the voice alarm for a red light camera sounds. The voice alarm mutes. MUTE ALERTS FOR POI OVERSPEED ALERT AND USER LIMIT SPEED When R4 alerts you to an overspeed or speed limit situation (an alarm sounds and the alert displays), you can press ***MUTE/ DIM*** to silence that alarm.	DIM - Changes the display and key backlight brightness: Auto (Default). Set 2 automatic time periods and brightness levels for the OLED display (see page 22). Bright Dim Dimmer Dark (Dark is off unless there is alert.) Off (Off regardless of whether or not there is an alert.) DURING RED LIGHT CAMERA ALERT Press and hold ***MUTE/ DIM*** to delete the red light camera point. RED LIGHT CAMERA POINT DELETE When R4 alerts you to a red light camera (the alert displays), you can press and hold ***MUTE/DIM*** to delete that camera point. After confirming this deletion, R4 will not give an alert for that camera.

KEY	PRESS TO...	PRESS AND HOLD TO ...
MARK	User Mark. A User Mark is a manually tagged geographic location where an alarm is usually found. The R4 alerts when close to these User Marks. *Add - Press* ***MARK*** when you are at the alarm location. *Delete - Press* MARK when you are at an alarm location that has been marked. An error message displays/sounds if memory is full or there is a GPS error.	Delete all User Marks.

NON-KEY ELEMENTS

ELEMENT	WHAT IS 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 received signal strength (5 levels).

POWER CORD



ELEMENT	WHAT IT DOES...
MUTE button (Although not labeled, press and hold ***MUTE*** to access ***DIM*** functions***)***	• Press the ***MUTE*** button 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 on the R4 for a few seconds. • Save a Mute location (Mute Memory) - press the ***MUTE*** button again while *Mute On* displays on the R4 to save that GPS location and frequency to memory. *Mute Memory* displays on the screen. ***R4 stores up to 1750 Mute Memory points. The R4 shares 2,000 points between Mute Memory and User Marks as set in the Memory Quota menu.*** • Delete Mute Memory - Press the ***MUTE*** button while *Mute Memory* displays on the R4; the R4 displays a delete confirmation message. Press the ***MUTE*** button again to confirm. • Red Light Camera Point Alert Mute/Delete - When R4 alerts you to a red light camera (the alert displays), you can press ***MUTE*** to mute or delete (press and hold) that camera point. After confirming this deletion, R4 will not give an alert for that camera. • Mute Overspeed Alarms - When R4 alerts you to an overspeed or speed limit situation (an alarm sounds and the alert displays), you can press ***MUTE*** to silence that alarm • Press and hold the ***MUTE*** button to change the display and key backlight brightness. DIM function. Press and hold for DIM options to display on the OLED. Press the button again to scroll through and select one of the following options: • Auto (Default; see page 22 to set OLED brightness levels and start times and page 28 for Auto Dim feature description.) • Bright • Dim • Dimmer • Dark (Dark is off unless there is alert.) • Off (Off regardless of whether or not there is an alert.) ***Dim level cannot be changed during a Red Light Camera alert.***
LED (Red)	• Off: Power is off. • Steady on: Power is on. • Flashing: Receiving an alert. The faster it flashes, the stronger the signal.

ELEMENT	WHAT IT DOES...
USB Port	Use this USB port to charge mobile devices.

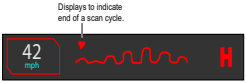
OLED DISPLAY

The OLED display on the front of the unit changes depending on what events are happening.

If GPS = ON, the OLED's left display area shows the display selected in the menus (see page 21).

If GPS = Off, the OLED's left display area shows Volt regardless of user settings.

The following table provides examples of the most common OLED displays.

OLED EXAMPLES	MEANING
Scanning for Frequencies  	Information displayed in example: • Speed (mph or km/h) • Wave • Heart icon (end of search cycle) • Highway/City/Advanced
Frequency Found (Display Style #1) (Display Style #2) 	Information displayed: • Band type Type (X, K, KA) • Frequency number • Speed • Status Area (Mute Memory, Quiet Ride, etc) • Signal strength indicator bar
Speed Camera Alarm 	Information displayed: • Current speed in mph/km/h • Distance to speed camera • Speed camera icon
Red Light Camera Alarm 	Information displayed: • Current speed in mph/km/h • Distance to red light camera • Red light camera icon

OLED EXAMPLES	MEANING
User Mark Detected 	Information displayed: • Current speed in mph/km/h • Distance to user mark • User mark icon
Time Display (Scan Display Off) 	Information displayed: • Voltage • Time and AM/PM • Highway/City/Auto/Advanced mode
Quiet Ride Display Display Style #1 Display Style #2 	Information displayed: • Current speed in mph/km/h • Band type Type (X, K) • Frequency number • Status Area (Q-Ride displays) • Signal strength indicator bar
Dark Mode 	Set mode to Dark if the unit's OLED is not anticipated to change a lot to prevent image burn-in (*Auto Dim* setting). In Dark mode, the OLED is dark with a single white dot in the lower corner that moves from bottom left to center to bottom right. The movement of the dot confirms that the unit is still powered up.

INSTALL AND TURN ON R4

You can mount the R4 on the windshield (1- and 2- cup suction brackets included) or on the dashboard (hook and loop tape included).

INSTALL/POWER ON

Windshield

When you mount the R4 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 windshield.

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 RJ11 connector into the R4 and plug the cigarette lighter adapter into the vehicle's cigarette lighter.
4. When the vehicle turns on, the R4 automatically turns on and runs through a self test cycle.

Release the R4 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 loop fastener tape.

   Be careful not to cover any air vent holes with the hook and fastener tape.

2. Plug the power cord RJ11 connector into the R4 and plug the cigarette lighter adapter into the vehicle's cigarette lighter.
3. When the vehicle turns on, the R4 automatically turns on and runs through a self test cycle.

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

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 speed or 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.

The R4 menu system is 2-tiered; Basic and Expert. Basic level menus let you set basic elements such as red light camera alarms, band announcement (voice), and how you want the OLED to appear (Alert Display #1 or #2 menu option, for example), among other options. Expert level menus allow you to fine-tune your detector by activating the traffic sensor filter, turning threat notifications on and off, or changing the colors on the OLED screen, among other options.

In addition, GPS can be turned on and off only through the Expert menus. GPS status also affects which menus may display in the Basic or Expert levels. For example, if GPS is turned on, then the Speed Camera Alarm menus display. If it is not turned on, then those menus will not display.

If a menu depends on Level, Mode, GPS , or a different status, that dependency will be noted in the specific menu entry itself.

The following table lists all the menu options from all levels and modes.

Several menu items only display if GPS is set to ON. These entries are noted in the following table.

MENU ITEM	FUNCTION	SETTINGS
Mode display	Shows selected mode.	*Basic* *Expert*
Band Sensitivity Selection	Changes band sensitivity as follows: *Highway* - Full Sensitivity *City* - X and K sensitivity reduced. Ka band sensitivity same as Highway. Auto - the R4 will automatically switch between Highway and City depending on the speed limits set in the Auto City Speed menu. See “Auto City Speed” on page 15 and page 35. *Advanced* - User adjusts X, K, and Ka band in decreasing sensitivity from 100% - 30% in 10% intervals. Advanced - Select Attenuation levels for the X, K, and Ka bands. See page 32 for details.	*Highway* (Default) *City* *Auto* *Advanced*
X Band Attenuation (Basic and Expert levels, Advanced modes only)	The higher the attenuation (100%) the more signals, including weaker signals, are received. Reduce attenuation and the weaker signals drop out, leaving only the stronger signals.	*100%* (Default) ~ *30%* (In decreasing 10% increments)

MENU ITEM	FUNCTION	SETTINGS
K Band Attenuation (Basic and Expert levels, Advanced modes only)	The higher the attenuation (100%) the more signals, including weaker signals, are received. Reduce attenuation and the weaker signals drop out, leaving only the stronger signals.	*100%* (Default) ~ *30%* (In decreasing 10% increments)
Ka Band Attenuation (Basic and Expert levels, Advanced modes only)	The higher the attenuation (100%) the more signals, including weaker signals, are received. Reduce attenuation and the weaker signals drop out, leaving only the stronger signals.	*100%* (Default) ~ *30%* (In decreasing 10% increments)
Auto City Speed	Sets the speed at which the R4 changes from City mode to Highway mode and back.	10 - 60 mph (in 5 mph units) or 10 - 100 km/h (in 10 km/h units)
GPS (Turn GPS on and off in Expert level only)	Display current GPS status in Basic level. Turn GPS on or off in Expert level only. GPS determines your geographic location and locates set frequency locations in your area from a database. ***If GPS is turned on, other GPS-related menu items display.***	*On* (Default) *Off*
Speed Camera Alarm (If GPS on)	Notifies you if any speed cameras are nearby.	*On* (Default) *Off*
Speed Camera Alert Range (If GPS on)	Sets range for speed camera detection when Speed Camera Alarm is On.	*1000 ft (300 m)* (Default) *2,000 ft (600 m)* *2,500 ft (760 m)* *3,000 ft (900 m)*

MENU ITEM	FUNCTION	SETTINGS
Redlight Camera Alarm (If GPS on)	Notifies you if any red light cameras are nearby.	*On* (Default) *Off*
RLC Q-Ride (If GPS on)	Red Light Camera Quiet Ride - Mutes red light camera alarms if you are driving below the speed set here.	*50 ~ 85 MPH* (80 ~ 140 km/h) *Off* (Default)
POI Passchime (If GPS on)	Turns the alert chime off and on.	*On* *Off* (Default)
Voice (If GPS on)	Turns voice alert on or off under the following conditions: Type of radar/laser Band alarms	*On* (Default) *Off*
Ka Frequency Voice	Announces the detected Ka band frequency.	*On* *Off* (Default)
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 and K bands sensitivity reduced	*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*
Laser Gun ID (Expert level only)	Turn on to display laser gun identifier.	*On* *Off* (Default)
K POP (Expert level only)	Detects K POP transmissions (very brief transmissions, too fast for some detectors to hear).	*On* *Off* (Default)

MENU ITEM	FUNCTION	SETTINGS
MRCD/T	Activates MultaRadar CD/CT low-powered radar gun detection.	*On* *Off (Default)*
Gatso RT3/4	Activates detection for Gatso radar guns.	*Gatso RT3/4 On* *Gatso RT3/4 Off* (Default)
Ka POP (Expert level only)	Detects Ka POP transmissions (very brief transmissions, too fast for some detectors to hear).	*On* *Off* (Default)
K Filter (Expert level only)	Filters noise from the K band to prevent false detections.	*On* (Default) *Off*
Ka Filter (Expert level only)	Filters noise from the Ka band to prevent false detections.	*On* *Off* (Default)
TSF (Expert level only)	Traffic Sensor Filter. Prevents false alarms caused by traffic monitoring radar systems.	*On* *Off* (Default)
K Block1 Filter (Expert level only)	Keep K Block1 Filter ON to block K band monitor systems in the 24.199 (± 0.005) range.	*On* *Weak* (Default) *Mute* *Off*
K Block2 Filter (Expert level only)	Keep K Block2 Filter ON to block K band monitor systems in the 24.168 (± 0.002) range.	*On* *Weak* (Default) *Mute* *Off*
K Narrow/ Wide/Extended (Expert level only)	K Wide and K Narrow scan for K band radar guns used in the US only. K Narrow scans a narrower frequency range than K Wide. K Extended increases the frequency scanning range for K band radar guns.	*K Wide* (Default) *K Narrow* K *Extended*

MENU ITEM	FUNCTION	SETTINGS
Ka Narrow/ Wide/ Segmentation (Expert level only)	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 Segmentation allows the user to customize a Ka band sweep from 9 filtered settings.	*Ka Narrow* (Default) *Ka Wide* *Segmentation* (Default = On) *Ka 1* : 33.399 – 33.705 On/Off *Ka 2* : 33.705 – 33.903 On/Off *Ka 3* : 33.903 – 34.191 On/Off *Ka 4* : 34.191 – 34.587 On/Off *Ka 5* : 34.587 – 34.803 On/Off *Ka 6* : 34.803 – 35.163 On/Off *Ka 7* : 35.163 – 35.379 On/Off *Ka 8* : 35.379 – 35.613 On/Off *Ka 9* : 35.613 – 35.701 On/Off
Priority (Expert level only)	Sets whether Ka band signals have priority over the strongest radar signals for X, K, or Ka band, or MRCD. Laser alerts have priority over radar alerts.	If MRCD on: MRCD/Ka Priority (Default) Signal Ka/MRCD If MRCD off: Signal Ka
Mute Memory Band (If GPS on, Expert level only)	Select bands to be muted.	X & K (Default) X, K, Ka

MENU ITEM	FUNCTION	SETTINGS
Auto Mute Memory (If GPS on, Expert level only)	This menu turns the ability to save mute requests for specific locations/frequency bands on and off.	*On* (Default) *Off*
Auto Mute Memory Band Option Set (If GPS on, Expert level only)	Auto Mute Memory Band Option Set specifies which bands will be muted.	*X & K* (Default) *X, K, and Ka*
Threat (Expert level only)	Displays if more than one radar signals are 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 35).	*All Threat On* *All Threat Off* (Default)
Background Color	Select the color for the fixed display elements on the OLED.	Blue Amber Green Pink Grey Red (Default) White Purple

MENU ITEM	FUNCTION	SETTINGS
Band Color (Expert level only)	X Band ***Signal setting matches signal strength level color.***	Signal (Default) Red Blue Green Orange Yellow White Violet
	K Band ***Signal setting matches signal strength level color.***	Signal (Default) Red Blue Green Orange Yellow White Violet
	MRCD/T Band ***Signal setting matches signal strength level color.***	When MRCD/T is on: Signal (Default) Red Blue Green Orange Yellow White Violet
	Gatso RT3/4 Band: ***Signal setting matches signal strength level color.***	When Gatso RT3/4 is on: Signal (Default) Red Blue Green Orange Yellow White Violet
	Ka Band ***Signal setting matches signal strength level color.***	Signal (Default) Red Blue Green Orange Yellow White Violet

MENU ITEM	FUNCTION	SETTINGS
Display	Select what will display on the OLED, either scanning, mode, or time (see page 30).	*Scan* *Mode* (Default) *Time* (if GPS on)
Scan Icon	Turn the scan icon (small red heart) on or off.	*On* *Off* (Default)
Left Display (If GPS on)	Lets you select various attributes to display on the left side of the OLED.	*Speed* (Default) *Speed + Compass* *Compass* *Voltage* *Altitude*
Alert Display Mode (If GPS on)	Select the desired alert display style.	*Alert Display Style #1* (Default) *Alert Display Numb#2*
Speed Unit (If GPS on)	Select the speed measurement type.	*mph* (default) *km/h*
X Band Tone	Set a tone to indicate X Band.	*1 ~ 12 tones* (Default = 1)
K Band Tone	Set a tone to indicate K Band.	*1 ~ 12 tones* (Default = 2)
K Bogey	Set a tone to indicate when the detector is responding to a different K band signal.	*1 ~ 5 tones* (Default = 1)
MRCD/T Tone (if MRCD/T is on)	Set a tone to indicate when MRCD/T signals are detected.	*1 ~ 12 tones* (Default = 6)
Gatso Tone (if Gatso RT3/4 on)	Set a tone to indicate Gatso RT3/4.	*1 ~ 12 tones (Default = 9)*
Ka Band Tone	Set a tone to indicate Ka Band.	*1 ~ 12 tones* (Default = 3)

MENU ITEM	FUNCTION	SETTINGS
Ka Bogey Tone	Set a tone to indicate the detector is responding to a different Ka band signal.	*1 ~ 5 tones* (Default = 1)
Laser Tone	Set a tone to indicate Laser.	*1 ~ 12 tones* (Default = 4)
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* (Default) *Off*
Auto Mute Volume	Sets a volume level for muted alarms.	*0 - 7* (Default = 2) *Off*
Dark Mode Brightness Setting (Expert level only)	Set Alert brightness.	*Bright* *Dim* *Dimmer* (Default)
Auto Dim Setting [If GPS on in Expert level AND Dim setting set to Auto through the MUTE/DIM key)(see page 28).]	Set the start times for the OLED to automatically brighten or dim. For example, you can set the OLED to be brighter at 6:00 AM and dimmer at 6:45 PM. Choose Time or Sensor (Default). See page 28 for details.	Bright time - Set time for the OLED to change brightness in 15 minute increments. Bright Level - Select Bright, Dim, or Dimmer. Dim Time - Set time for Dim in 15 minute increments (up to 24 hours). Dim level - Select Bright, Dim, Dimmer, Dark, or Off.

MENU ITEM	FUNCTION	SETTINGS
Backlight (Expert level only)	Turns the front key backlight on and off.	*On* (Default) *Off*
Quiet Ride (If GPS on)	Mutes radar alarms for K and X bands when you drive under the speed limit you set here.	Off (Default) mph = 5 - 90 in 5 mph intervals km/h = 10 - 140 in 10 km/h intervals
Q-Ride MRCD/T (If GPS on)	Mutes MRCD/T alarms when you drive under the speed limit set previously.	*On* *Off* (Default)
Quiet Ride Beep Volume (If GPS on)	Sets the volume for Quiet Ride alerts.	0 ~ 8 with (Default = 1)
Limit Speed (If GPS on)	Set an alarm to sound if you go faster than this selected speed.	*Off* (Default) *50 - 100 mph* *80 - 160 km/h*
GMT (If GPS on, Expert mode only)	Sets time zone according to Greenwich Mean Time (GMT).	Most common time zone settings for North America are: GMT-05:00 - Eastern Standard GMT-06:00 - Central Standard GMT-07:00 - Mountain Standard GMT-08:00 - Pacific Standard GMT-09:00 - Yukon Standard GMT-10:00 - Alaska-Hawaii Standard
DST (If GPS on, Expert mode only)	Daylight Saving Time	*On* *Off* (Default)

MENU ITEM	FUNCTION	SETTINGS
BAT Warning (Expert level only)	Sounds a warning tone if the vehicle battery power drops below 11V.	*BAT Warning On* *BAT Warning Off* (Default)
BAT Saver (If GPS on, Expert level only)	Turns off power to the R4 if the speed stays at 0 or if the GPS is not connected for more than an hour.	*On* *Off* (Default)
Self Test (Expert level only)	Runs a self diagnostic test on the unit to check for faults.	*On* (Default) *Off*
Factory Reset?	Resets all settings to the factory defaults. ***There is no confirmation request for reset.***	Press ***MENU*** to reset to factory settings.
Delete All Mute? (If GPS on)	Delete all saved Mute Memory points. ***There is no confirmation request to delete all Mute Memory points.***	Press ***MENU*** to delete all saved Mute Memory points.
Delete All Auto? (If GPS on)	Delete all saved Auto Mute Memory points. ***There is no confirmation request to delete all Auto Memory points.***	Press ***MENU*** to delete all saved Auto Mute Memory points.
Delete All User? (If GPS on)	Delete all user-selected memory points. ***There is no confirmation request to delete all user-marked points.***	Press ***MENU*** to delete all user-selected memory points.
Memory Quota (If GPS on, Expert level only)	R4 shares up to 2,000 points between Mute Memory and User Marks. Allocate these levels using this menu.	*Mute Memory: 250 ~1750 points total* *User Marks: 250 ~ 1750 points total*
S/W version	Displays the latest firmware version.	NA

MENU ITEM	FUNCTION	SETTINGS
DB Ver (If GPS on)	Displays the latest database version.	NA
Exit	Closes the Menu system.	NA

BASIC OPERATIONS

HOW DO I ...?	TRY THIS...
Turn on the R4	Be sure the unit is connected to power and then press ***POWER***. The unit turns on and runs through an initial self-check if Self Test is turned on. It displays the different bands and their settings. The R4 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 audio 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.) You can also press the ***MUTE*** button on the power cord.
Change the screen's brightness	Press and hold ***MUTE/DIM***. The R4 announces the brightness level (Bright, Dim, Dimmer, Dark, or Off) as it changes to that level. Press the key again to cycle between the brightness levels.
Turn bands on and off	Press ***MENU*** and then press ***VOL+*** to cycle through the menu options until the band you want to turn on or off displays. Press ***MENU*** again to change that band's status.
Change system modes (Highway to City or Auto), or set attenuation levels in Advanced mode and back	Press ***MENU*** then ***Vol+***. The current system mode displays. Press ***MENU*** to cycle through *Highway*, *City*, *Auto*, and *Advanced*. After you select *Highway, City*, or Auto, press and hold ***MENU*** to exit. If you select *Advanced*, press VOL***+*** to select either the X, K, or Ka band to adjust. Press ***MENU*** to adjust sensitivity levels in 10% increments. Press ***Vol+*** again to adjust the other modes.

HOW DO I ...?	TRY THIS...
Set a user mark	Press ***MARK*** to create a user mark when you are at a location where there is normally some type of radar. The R4 announces "User mark logged." The R4 will announce when you approach user marks. R4 shares up to 2,000 points between Mute Memory and User Marks.
Delete a user mark	Press ***MARK*** again at that location to delete the user mark. R4 shares up to 2,000 points between Mute Memory and User Marks. ***The R4 does NOT ask for confirmation before deleting single user marks.***
Delete ALL user marks	Press and hold ***MARK*** to delete all user marks. *Delete All User?* displays and is announced. Press ***MARK*** again. Delete confirmation message displays and is announced.
Update the firmware and database	Refer to www.unidensupport.com for details.
Adjust the time	Go to *Menu/Expert* and select any menu mode. Press ***VOL+*** to scroll to *GPS* and be sure it is turned on. Continue scrolling to *GMT*. Select the GMT for your time zone (see page 23). Press and hold ***Menu*** to exit. The time should automatically adjust.
Set up the R4 screen to get brighter and dimmer at specific times	Set the Dim level to AUTO using the MUTE/DIM button on the R4 unit or the MUTE button on the power plug. Next, set the times that the OLED will get brighter or dimmer through the Auto Dim menu in the Expert level. (See page 28.)

FEATURE DETAILS

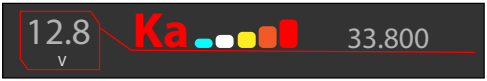
ALARM PRIORITIES

- GPS Connected / GPS Error / Speed Camera / Red Light Camera / User Mark Alarm/POI Limit Speed Alarm.
- Laser signal (Alert display style #1)

- MRCD Alarm (Alert display style #2)

- Gatso Alarm RT3, RT4 (Alert display style #2) (See page 31 for details.)

- X, K, Ka band signal (Alert display style #1, Alert display style #2)



- User Limit Speed Alarm

- Vehicle Low Battery Voltage Warning, Vehicle Battery Saver Alarm

ATTENUATION

(Advanced mode only)

The higher the attenuation (100%), the more signals, including weaker signals, are received. Reduce attenuation and the weaker signals drop out, leaving the stronger ones.

AUTO DIM

The Auto Dim feature only displays in the Expert menu if you select *Auto* using the R4 unit's ***MUTE/DIM*** button or the power cord's ***MUTE*** button. Use this feature to set when the OLED changes brightness levels and to what brightness levels it changes. For example, you can set the R4 to shift to Bright level at 6:00 AM and then to Dimmer level at 6:45 PM.

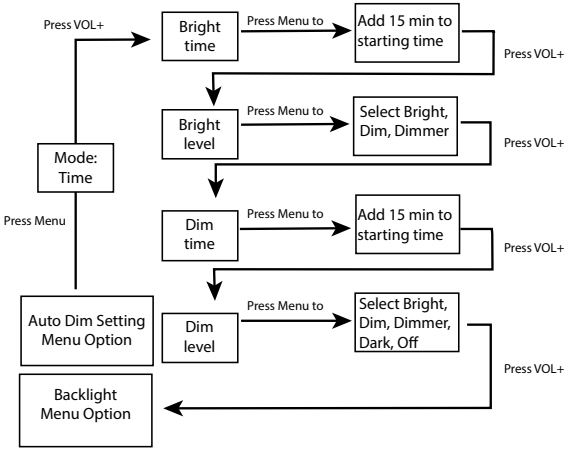
Set DIM to Auto from the R4/Power Cord

1. Press and hold the ***MUTE/DIM*** button on the R4 device or the ***MUTE*** button on the power cord. The current DIM level displays on the OLED.
2. Press the ***MUTE/DIM*** button on the R4 device or the ***MUTE*** button on the power cord to change DIM levels until *AUTO* displays. The R4 device displays and, if volume is turned on, announces the current feature setting.

Configure Auto from MENU

The unit must be set to Expert level with GPS on and the brightness level must be set to Auto through the Mute/Dim button or the MUTE button on the power cord.

1. Press ***MENU***. Press ***VOL+*** or ***VOL-*** to scroll through the menu options until *Auto Dim Setting* displays.
2. Press ***MENU*** to display Auto/Dim options display - Time or Sensor. Selecting Time will let you set specific times when you want the OLED to get brighter or dimmer. Selecting Sensor will let the ambient light levels trigger when the OLED will get brighter or dimmer.
3. Select Mode: Time Press ***VOL+*** access Bright time. (Bright time box in the illustration.) Press ***MENU*** to add 15 minutes to the start time displayed. (Range = 5:30 AM - 7:30 AM)
4. Press ***VOL+*** to access Bright Level options (Bright level box in the illustration). Press ***MENU*** to scroll between *Bright*, *Dim*, and *Dimmer*.
5. Press ***VOL+*** to access Dim time options (Dim time box in the illustration). Press ***MENU*** to add 15 minutes to the start time displayed (Range = 5:00 PM - 8:00 PM).
6. Press ***VOL+*** to access Dim level options (Dim level box in the illustration). Press ***MENU*** to scroll between *Bright*, *Dim*, *Dimmer*, *Dark*, and *Off*.
7. Press ***VOL+*** to access the next menu item, *Backlight*.
8. The OLED will change to these preset levels at the preset times, making the OLED brighter or dimmer as selected.



AUTO MUTE/AUTO MUTE VOLUME

When the R4 detects a signal, it sounds an alarm at the current volume level. To make the alarm quieter, turn Auto Mute on through the menus (see page 22). This will reduce the volume to the level set (0 - 7) in the *Auto Mute Volume* menu (see page 22).

If the current volume level is 0, the R4 will not change the volume to the Auto Mute Volume level; it will keep the volume level at 0.

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.

BLOCK BLIND SPOT MONITOR SYSTEMS

Some vehicles come equipped with Blind Spot Monitors (BSM). These systems send out limited range K signals that alert the driver to other vehicles that come within that range. Your R4 can pick up those signals from other vehicles and keep alerting

you to them. You can block those signals by turning on K Block Filter in the Expert level menus.

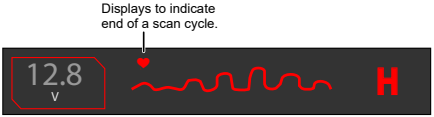
DISPLAY FORMATS

Mode Display

The OLED displays the voltage on the left side of the display and the mode on the right side. Set the mode through the *Display Mode* menu.

Scan Display

The OLED 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. Select SCAN display through the *Display Mode* menu.



Time Display

The OLED displays the time in the center of the OLED if *Time Display* is selected in the menu.

FREQUENCY DISPLAYS

When the band and signal frequency display on the OLED, the band letter color matches the signal strength as represented in the 5 colored ovals in the display. In example 1 (display style #1), the band name KA displays in red to match the strong frequency. In example 2 (display style #1), the frequence strength is lower; therefore, the band name color matches the yellow frequency band.

Example 1:

Example 2:

GATSO RT3/RT4 FREQUENCY RANGES

There are two types of Gatso traffic enforcement systems - RT3 and RT4. RT3's frequency range is 50MHz and RT4's is 100MHz. The R4 divides each range into 3 bands and and indicates the band in the alert. The following example shows the alert for Gatso RT4, Band 1 in display format #2.

MODES (HIGHWAY, CITY, AUTO, AND ADVANCED)

Uniden's R4 radar detector operates in two different frequency (X, K, and Ka band) sensitivity modes - Highway and City. Highway mode is the most sensitive, with maximum detection ranges while on the highway or open road. City is on the lower end of the detection scale for city driving. City mode reduce sensitivity so that false signals (such as from automatic door openers) are filtered out.

Under factory default conditions (X band = off on all modes, K and Ka bands = on), the band sensitivities are:

- Highway: X, K, and Ka bands full sensitivity.
- City: X and K bands sensitivity reduced; Ka band full sensitivity.
- Auto: Auto mode will switch the R4 between Highway and City depending on the Auto City Speed menu setting (see page 15). Sensitivity is the same as Highway and City settings.
- Advanced: Adjust the sensitivity level for each band.

1. Press ***MENU***. The current level and mode display.
2. Press ***MENU*** to scroll through the modes and select Advanced mode.
3. Press ***VOL+*** to scroll through the Bands and then press ***MENU*** to adjust the desired band in 10% increments.

Sensitivity Level %	Sensitivity Adjustment (Attenuation)
100	Full sensitivity (Default)
90	– 1 dB
80	– 2 dB
70	– 3 dB
60	– 4.5 dB
50	– 6 dB
40	– 8 dB
30	– 10.5dB

4. When complete, press ***VOL+*** to move to the next mode to adjust.
5. Press ***VOL+*** to return to the ***MENU***.

If a band is turned off through the menus, it is off in all modes.

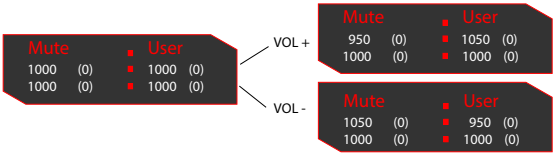
MEMORY QUOTA

Memory Quota refers to the number of user and mute memory points saved on the R4. The R4 can save up to 2,000 points between the two. The maximum amount saved for one point type is 1,750; the minimum amount saved for the other point type would be 250 (total = 2,000 points). If the first point type drops by 250 points (1,500 points), the other type can increase by 250 points to 500 points (total = 2,000).

The Memory Quota menu (Expert level, GPS On; page 24) sets these numbers in 50 point increments.

1. Select *Memory Quota* from any Expert level menu. The Memory Quota screen displays. The bottom line is the starting allotment; the top line is the line that changes as you increase/ decrease allotments. The number in parentheses indicates the number used.	Mute User 1000 (0) 1000 (0) 1000 (0) 1000 (0)

2. Use the ***VOL +*** and ***VOL -*** keys to increase or decrease the category with the highest allotment by 50 units.



3. Press ***MENU*** to save that change. *Change Quota?* displays.

NOTE: If no action is taken to confirm the quota change within 10 seconds, R4 cancels the changes and exits Menu.

4. Press ***MENU*** again to accept changes to the Memory Quota. A confirmation message displays before returning to the status screen.

MUTE MEMORY

Use Mute Memory to mute known areas of false alarms (such as department store automatic doors). The R4 remembers where you muted the audio (GPS location) and the frequency you muted. It will automatically mute when you travel to that location and the saved frequency is detected; however, if a different frequency is detected, the R4 alerts to that different frequency.

When you press ***MUTE/DIM*** or the ***MUTE*** button on the power cord to mute audio for a specific location, *Mute On* displays. While *Mute On* displays, press ***MUTE/DIM*** or the ***MUTE*** button on the power cord again to save that GPS location to memory. *Mute Memory* displays on the screen.

R4 shares up to 2,000 points between Mute Memory and User Marks. Allocate these levels using the Memory Quota menu (Expert level, GPS on).

To delete Mute Memory points, press ***MUTE/DIM*** or the ***MUTE*** button on the power cord while *Mute Memory* displays. The R4 displays a delete confirmation message; press ***MUTE/DIM*** or the ***MUTE*** button on the power cord again to

confirm. You can also delete Mute Memory points from *the Delete All Mute?* menu when GPS is on.

POP MODE

In POP mode, the R4 can detect short burst from radars that are too fast for many other detectors to catch. You can turn POP mode on and off in the Expert menus.

QUIET RIDE

(GPS On)

This function mutes X and K band radar alarms when you drive under a speed limit set in this menu (up to 90 mph/140 km/h). If X or K band signals are detected, the unit beeps once in volume level one and then goes to volume level zero. Q-Ride flashes in green on the OLED.

Ka and Laser bands are NOT muted. Mute Memory overrides Quiet Ride.

RED LIGHT CAMERA POINT DELETE

Expert level only

When you are at a red light camera and an alert displays, you can delete that camera point. Once deleted, the R4 will not alert at that red light camera location again.

To delete the RLC Point, press ***MUTE/DIM*** on the unit or ***MUTE*** on the power cord while the alert displays.

A confirmation message displays. Press ***MUTE/DIM*** on the unit again or ***MUTE*** again on the power cord. *Delete Completed* displays.

RED LIGHT CAMERA QUIET RIDE

This function mutes red light camera alarms when you travel below a speed set in the RLC QR menu (page 16).

THREATS

The R4 detects up to 4 radar band signals (threats) at a single time. The strongest rader signal is designated as the Priority signal, and its frequency displays on the OLED. The other 3 signals (threats) are indicated in the left side of the display. In the following example, 3 K bands and 1 X bandfrequencies are detected.

The Priority menu setting determines which type of frequency displays on the OLED (see page 18). If Priority is set to Signal priority, the strongest signal displays on the OLED. If Priority is set to Ka Priority, the Ka band radar signal displays on the OLED.

USER MARKS (MEMORY POINTS)

With the R4, you can mark geographical points where you commonly encounter radar transmissions, These can be school zones, red-light cameras, and places where police frequently monitor traffic.

When you are at the location, press ***MARK***. The R4 announces “User mark logged.” Now, when you approach these points, the R4 announces “User mark ahead.”

Press and hold ***MARK*** at that location to delete that user mark.

The R4 registers up to 2,000 marks split between mute memory marks and user marks. These marks are split at 1750 maximum and 250 minimum between the two mark types.

USER-SET AUTO CITY SPEED

When you set speed parameters through the Auto City Speed menu in both Basic and Expert modes, the R4 will change from Highway to City (or from City to Highway) mode when the vehicle reaches that set speed. For example, if Auto City Speed is set to 60 mph (90 km/h), driving over that limit will switch the R4 to Highway mode; driving below it will switch the R4 to City mode.

MAINTENANCE

MAINTAINING THE EQUIPMENT

The R4 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/DATABASE

Uniden recommends that you update your R4 firmware and database periodically. Go to www.unidensupport.com, find your model, and check if you have the latest firmware.

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 R4 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 OLED will show OFF. Turn the band on.
The vehicle starts but the R4 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 plug to access the fuse.

SPECIFICATIONS

Receiver Type:		Antenna Type:	
Radar	Double Conversion Super-heterodyne Self-Contained Antenna	Radar	Linear Polarized E-vector Vertical

Laser	Pulsed Laser Signal Receiver	Laser Front Back	Convex Condenser Lens Concave Condenser Lens
Frequency:			
X	10.525 GHz	Dimensions	117.50 mm (D) x 69.80 mm (W) x 32.80 mm (H)
K	24.150 GHz	Weight	5.3 oz (150 g)
Ka	33.400 - 35.700 GHz	Operating Temp.	-4° to +185° F (Radar/ Laser) -20° to +85° C (Radar/ Laser)
Laser	800 nm - 1,100 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	Voice and Beep (Detected Band and Signal strength)		

FCC COMPLIANCE

FCC ID: AMWUA2101 contains FCC ID: W75-BTM0.

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.

FCC INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the 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 correct the interference by one 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 which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC CAUTION

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC RADIATION EXPOSURE STATEMENT

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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

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