

**K40**<sup>™</sup>  
ELECTRONICS

*Portable All-Band Radar  
and Laser Detector*



**RD950**

*Owner's Manual*

# K40 Consult

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We'll explain the whole thing.

**800.323.5608**



**K40 ELECTRONICS**

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# Mounting and Powering the RD950

## **Mounting Instructions**

To help ensure that your RD950 functions properly and offers maximum protection, please follow these mounting instructions:

1. **Clean** the area of the windshield where the RD950 will be mounted.\*
2. **Attach** the supplied **Windshield Mounting Bracket** to your vehicle's windshield by firmly pressing the suction cups and the bracket to the windshield.
  - a. Mount the bracket as low as possible near the center of the windshield.
  - b. Do not mount the RD950 behind wipers or any metal obstructions.
  - c. Slide the RD950 unit onto the bracket until it clicks to complete the mounting.
  - d. The bracket may need to be leveled by carefully bending it once the RD950 is mounted.

**\*IMPORTANT NOTE:** *Some windshields include a metallic coating that can significantly affect reception of radar signals. Consult with your dealer or check your vehicle's owner's manual to determine if your windshield has such a coating.*

## **Power Connection**

The RD950 comes with two power cords, one 3.5' coiled and stretchable cord and one 9.5' straight cord. You can use either cord based on your visual preference and power outlet location.

1. Plug the small end of the desired **Power Cord** into the **Power Input Jack** on the left side of the RD950.
2. Plug the large end of the **Power Cord** into your vehicle's 12V outlet.

3. Switch on the RD950 by rotating the **Power On / Volume Control Wheel** located on the left side of the unit.

**No power?** See Troubleshooting Guide on page 13.

## Wake-Up Sequence

*(using factory default settings)*

Once your K40 RD950 has been mounted and had the power connected, you may begin use immediately by following these steps:

1. **Switch on the RD950 – Rotate the Power On / Volume Control Wheel** on the left side of the unit.
2. **Listen for Wake-Up Sequence** – The RD950 will announce (voice) and display (screen) **K40 SCAN** then go through a “wake-up sequence” lasting approximately 5 seconds.
  - You will hear and see all bands report.
3. **You’re ready to drive!** – The RD950 will now display your Filter setting (Highway, City, or Filter), (page 10).

**Want help programming your RD950?**

**Call 800.323.5608**

## Receiving Alerts

The K40 RD950 provides a combination of audio and visual alerts to warn you when radar and laser signals are detected.

### ***Radar Alert Sequence***

The RD950 detects all North American police radar signals (X, K, and Ka-Band). When a radar signal is identified:

- A voice alerts which band was detected. (This assumes the factory default "Voice On" setting has not been changed.)
- A series of beeps indicates the strength of the signal. Each band has its own distinctive beep.
- The display will provide you band and strength information.

|                        |        |        |         |
|------------------------|--------|--------|---------|
| Radar source strength: | weak   | medium | strong  |
| Display reading:       | 123    | 456    | 789     |
| Audio alert beeps:     | slowly |        | rapidly |

### ***Radar Alert Examples:***

You are driving and a weak K-Band signal is detected:

Visual Alert: 

Audio Alert: Voice announces, "K-Band," followed by slow beeps.

As you approach the source, the signal becomes stronger:

Visual Alert: 

Audio Alert: Beeping is faster due to stronger signal.


## ***Laser Alert Sequence***

When the RD950 detects a laser signal:

- A voice alert announces, "Laser." (This assumes the factory default "Voice On" setting has not been changed.)
- You will then hear a distinctive audio tone.
- Display indicates laser has been detected.
- **NOTE:** Unlike radar, signal strength from laser remains constant.

### ***Laser Alert Example:***

You are driving and laser is detected:

Visual Alert: 

Audio Alert: Voice announces, "Laser," followed by distinctive audio tone.

## ***Alerts from Non-Police Signals***

Your RD950 is sensitive enough to detect signals generated by non-police equipment, such as automatic doors. To learn how to deal with these signals, please read about FILTER options (page 10).

### ***K-Band Filter***

Your RD950 rejects alerts from vehicles on the road (including your own) equipped with radar-based safety features, such as collision avoidance. Police radar reception and detection range is unaffected by this feature.

### ***Traffic Sensor Filter***

Your RD950 will reject alerts from traffic flow sensors usually encountered during highway driving. Enable this filter through the menu (page 12).

## Reference Guide

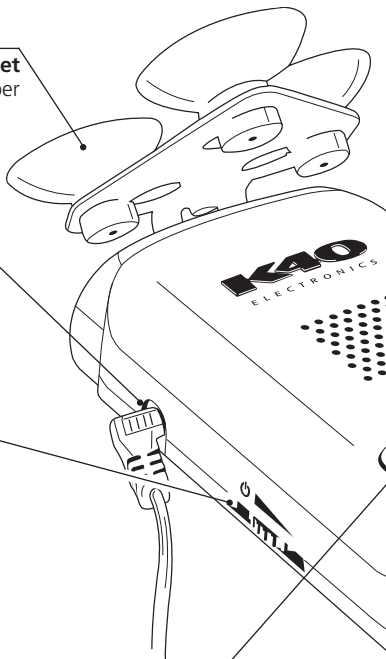
### **RD950** Radar and Laser Detection

**Windshield Mounting Bracket (with suction cups)** – For proper installation (page 4).

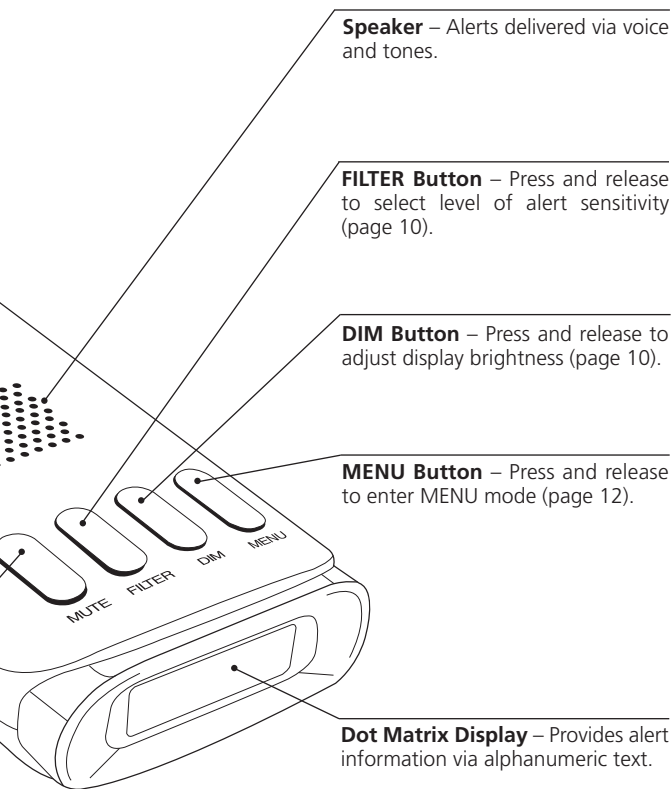
**Power Input Jack** – Insert small end of power cord here, and large end into 12V outlet (page 4).

**Power On / Volume Control Wheel** – Turn on the RD950 and adjust volume of voice / tones (page 4).

**MUTE Button** – Press and release to mute audio for 30 seconds or the duration of the alert. Press and hold for 3 seconds to engage a 5-minute mute (page 11).







**Speaker** – Alerts delivered via voice and tones.

**FILTER Button** – Press and release to select level of alert sensitivity (page 10).

**DIM Button** – Press and release to adjust display brightness (page 10).

**MENU Button** – Press and release to enter MENU mode (page 12).

**Dot Matrix Display** – Provides alert information via alphanumeric text.

**To Set Preferences** – Both **MENU** and **MUTE** buttons are used to change settings (page 12).

## Special Features / Functions

### **DIM**

- **Press and release DIM button** to adjust display brightness to accommodate various driving environments. Your setting will automatically be saved with the exception of "Off." The "Off" setting will revert to "Auto" upon RD950 wake-up.

#### **The 5 options include:**

1. **"Day"** (Bright)
2. **"Dusk"** (Medium / factory default)
3. **"Night"** (Dim)
4. **"Auto"** (Display adjusts automatically from 5 seconds in "Day," 5 seconds in "Dusk," and the duration of the alert in "Night")
5. **"Off"** (No display, still receive full audio alerts)

### **FILTER**

(i.e. signal sensitivity)

The **FILTER button** offers three levels of sensitivity settings to accommodate various driving situations. To change the level at any time, **press and release FILTER button**.

| <b>Settings</b>                                       | <b>Sensitivity</b>   | <b>Recommended Use</b>  |
|---|--|---|
| <b>1. Highway</b><br><i>(factory default setting)</i> | Detects all North American police radar signals (X, K, and Ka-Band) at full sensitivity. | For highway travel or in any area in which you are unfamiliar with the types of radar used.       |
| <b>2. City</b>  | 50% reduction in X-Band sensitivity (the most common source of non-police radar).        | When traveling in an urban area with minimal non-police radar signals.                            |
| <b>3. Filter</b>                                      | X-Band off. 50% reduction in K and Ka-Band sensitivity.                                  | When traveling in a congested traffic area with a high concentration of non-police radar signals. |

## **MUTE**

Using the **MUTE button**, the RD950 provides you two ways to mute audio alerts (both voice and tones):

- **Press and release MUTE button** to mute audio for 30 seconds *or* the duration of the alert. Voice will announce, "Mute On," and the display will show **Mute On**.
- **Press and hold MUTE button** for 3 seconds to mute audio for 5 minutes *or* the duration of the alert. Voice will announce, "Extended Mute On," and the display will show **Ext Mute**.

**NOTE:** You will only receive new alerts as visual indications on the display while this feature is engaged.

## Menu / Customizable Settings

The RD950 comes with factory default settings on certain features that we've learned are desirable for our customers.

**To access and change any of the 10 selectable preferences:**

- **Press and release MENU button** to scroll through the preferences until you reach the option to be changed.
- To change setting, **press and release MUTE button**. Both the display and voice will announce the change.
- **Press and release MENU button** to continue scrolling to another preference.

| Menu Options<br><i>(in order displayed)</i> |                       | Default Setting | Description   |
|---|-----------------------|-----------------|---|
| 1   | Voice Type            | Female          | Choose male or female voice for audio alerts.   |
| 2   | Audible Voice         | On              | For all initial audio alerts: "Voice On" uses voice; "Voice Off" uses tones only.   |
| 3   | Wake-Up               | Wake-Up Long    | Controls length of startup sequence after powering on the RD950. "Wake-Up Long" is a 5-second sequence. "Wake-Up Short" uses an abbreviated sequence. |
| 4   | Traffic Sensor Filter | Off             | Enables filtration of K-Band radar signals from traffic flow sensors.   |
| 5   | Automute              | Off             | Automatically reduces volume by 50% after 5 seconds.  |
| 6   | X-Band                | On              | Enables the detection of X-Band radar.  |
| 7   | K-Band                | On              | Enables the detection of K-Band radar.  |
| 8   | Ka-Band               | On              | Enables the detection of Ka-Band radar.   |
| 9   | Laser                 | On              | Enables the detection of laser.   |
| 10  | Factory Reset         | RESET           | Original factory default for all settings.  |

- The display will show **Exit** and the voice will announce, "Exit."

## Troubleshooting Guide

| Problem   | Possible Cause   | Solution   |
|---|--|--|
| <b>No visual display or audio (RD950 not receiving power)</b> | Plug not inserted properly.                              | Reinsert plug and rotate.  |
|   | Blown fuse in power cord.                                | Replace fuse with 2 amp 250 Volt F2AL fuse.  |
|   | 12V outlet not clean or negatively grounded.             | Consult your dealer or auto mechanic.  |
|   | Defective fuse or electrical wiring for 12V outlet.      | Consult your dealer or auto mechanic.  |
| <b>Weak or no detection range</b>                             | Partially blocked antenna or lens opening.               | Reposition the RD950 to ensure unobstructed view of the road ahead.  |
|   | Radar / laser signals unable to pass through windshield. | Determine if your vehicle has a heated windshield or is covered with a metallic tint. Check your vehicle's owner's manual or consult with your dealer. |
| <b>Erratic or frequent alerts</b>                             | High concentration of non-police radar sources.          | Use Filter Mode (see page 10).   |

***If you have any questions, please call one of our experienced K40 Consultants toll-free at 800.323.5608***

## Warranty

The K40 RD950 Portable Radar/Laser Detector is covered by a one year "repair or replace" Limited Warranty. This coverage begins on date of purchase and applies to defects in product materials and workmanship only. Installation, removal, or misuse is not covered.



## **100% Ownership Guarantee**

### **100% Immunity from Speeding Tickets**

Get a ticket, K40 will pay it, subject to the terms and conditions below. Simply send us a copy of the radar or laser speeding ticket, your proof of payment of the ticket, and your receipt for your RD950 purchase.

### **100% Performance Guarantee**

If your RD950 does not outperform any other radar or laser protection system you've owned, return it within 30 days of the purchase date for a full product credit.

### **100% One-Year Quality Guarantee**

K40 will repair or replace a defective RD950 for one full year from date of purchase.

To ensure you are covered by these guarantees, please register your RD950 within 30 days of purchase date via the included warranty registration card or online at **K40.com**.

### **Terms and Conditions:**

Ticket-Free Guarantee not valid for tickets issued in school or construction zones, incurred with a DUI or DWI violation, or for tickets received outside the U.S. and Canada.

In Canada – Excludes any photo radar/laser and/or any tickets issued that do not accumulate demerit points.

Product subject to one or more of the following patents:

U.S. Patents 5,001,777

RE39,038

RE40,653

RE41,905

Other patents pending

**Learn more at [K40.com](http://K40.com)**

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***FCC ID: W75-RD950***

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 K40 Electronics in writing, could void the user's authority to operate this product.

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