RL100 OWNERS MANUAL

K40 ELECTRONICS
Register your K40 RL100 today to activate your guarantees:

Guaranteed immunity from speeding tickets
If you get a speeding ticket within one year of purchase, we’ll reimburse you for the full cost of the ticket.*

Guaranteed performance
If your K40 radar detection system does not outperform any other radar detector you’ve owned, return it within 30 days for a full product credit.

One year warranty
K40 offers a one-year “repair or replace” warranty if your product fails to work properly.

*Offer not valid for speeding ticket violations incurred in school or construction zones, or connected with a DUI.

Register your RL100 online today by visiting K40.com
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Mounting and Powering the RL100

Mounting Instructions

To help ensure that your RL100 functions properly and offers maximum protection, please follow these mounting instructions:

1. **Clean** the area of the windshield where the unit will be mounted.*

2. **Attach** the supplied Windshield Mounting Bracket to your car’s windshield by firmly pressing the suction cups in the bracket to the windshield.
   a. Mount the bracket as low as possible near the center of the windshield.
   b. Do not mount the unit behind wipers or any metal obstructions.

3. **Slide** the RL100 unit itself on to the bracket to complete the mounting.

4. **Level** the radar detector, if necessary, by carefully bending the Windshield Mounting Bracket.

*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

1. Plug the small end of the supplied **Power Cord** into the **Power Input Jack** on the side of the radar detector.

2. Plug the large end of the **Power Cord** into your vehicle’s cigarette lighter socket or other 12V outlet.

3. Switch on the RL100 by turning the **Power On/Volume Control Wheel** located on left side of the unit.

   **No power?** See Troubleshooting Guide on page 16.
Quick Start
(using factory default settings)

Once your K40 RL100 has been mounted and had the power connected, you may begin using immediately by following these steps:

1. **Switch on the RL100 – Turn the Power On/Volume Control Wheel** on the side of the unit.

2. **Wait for Test Scan to complete** – The radar detector will announce (voice) and display (screen) **K40 SCAN** then go through a “wake up sequence” lasting approximately 5 seconds.
   a. You will hear and see all bands tested. Adjust the volume during this test.
   b. Upon completion of the sequence scan, the screen will display **HIGHWAY**.
   c. After finding available satellites, the unit will announce “GPS Connected” then display **GPS**.

3. **You’re ready to drive!** – The RL100 will now display filter setting, your speed and direction of travel. For example, if you are driving West at 57 mph and the filter is on Highway setting, the display will show

```
Filter  Travel  Speed
HIGHWAY  WEST  57 mph
```

Please read the entire Owner’s Manual to fully understand all of the RL100’s operations and functions.
Receiving Alerts

The K40 RL100 provides a combination of audio and visual alerts to warn you when radar and laser signals are detected.

**Radar Alert Sequence**

The RL100 detects every kind of FCC approved police radar. When a 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. (Volume reduces automatically after 5 seconds.)

- The display will provide you band and strength information.

<table>
<thead>
<tr>
<th>Radar source strength:</th>
<th>low</th>
<th>medium</th>
<th>strong</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display reading:</td>
<td>1 2 3</td>
<td>4 5 6</td>
<td>7 8 9</td>
</tr>
<tr>
<td>Audio alert beeps:</td>
<td>slowly</td>
<td></td>
<td>rapidly</td>
</tr>
</tbody>
</table>

**Radar Alert Examples:**

You are driving 45 mph and a low K-Band is detected.

Visual Alert: K 2 45

Audio Alert: Voice announces “K-Band” followed by slow beeps.

As you approach the source, you slow to 40 mph and the signal becomes stronger:

Visual Alert: K 8 40

Audio Alert: Beeping is faster due to stronger signal.
Laser Alert Sequence

When the RL100 detects a laser signal:

• A voice alerts announces “Laser.” (This assumes the factory default “Voice ON” setting has not been changed.)

• You then hear a distinctive audio tone. (Volume reduces automatically after 5 seconds.)

• Display indicates laser has been detected and reports your speed.

• **NOTE:** Unlike radar, signal strength from laser remains constant.

Laser Alert Example:

You are driving 55 mph and laser is detected.

Visual Alert: **LASER 55**

Audio Alert: Voice announces “Laser” followed by distinctive audio tone.

Alerts from non-police signals

Your RL100 is sensitive enough to detect signals generated by non-police equipment, such as bank security systems. To learn how to deal with these signals, please read about FILTER options (page 8) and Quiet Ride™ (page 9).
Special Features/Functions

Filter Operation
(i.e. signal sensitivity)

The Filter system on the RL100 offers you 3 levels of sensitivity settings to accommodate various driving situations. To change the level at any time, **press and release FILTER button**.

<table>
<thead>
<tr>
<th>Level / Mode</th>
<th>Sensitivity</th>
<th>Recommended Use</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. Highway</strong> <em>(factory default setting)</em></td>
<td>Detects all types of FCC approved police radar or laser signals at full sensitivity.</td>
<td>For highway travel or in any area in which you are unfamiliar with the types of radar used.</td>
</tr>
<tr>
<td><strong>2. City</strong></td>
<td>The X-Band sensitivity is reduced. This is because it is the most common source of non-police radar signals. K, KA and Laser remain at full sensitivity.</td>
<td>When traveling in an urban area with minimal non-police radar signals.</td>
</tr>
<tr>
<td><strong>3. Filter</strong></td>
<td>Eliminates X-Band detection completely. Reduces K and KA Band sensitivity. Laser detection will remain at full sensitivity.</td>
<td>When traveling in a congested traffic area with a high concentration of non-police radar signals.</td>
</tr>
</tbody>
</table>
Quiet Ride™

The RL100’s exclusive Quiet Ride™ Function will automatically silence all radar and laser alerts when traveling under a specific speed of your choice between 20-65 MPH.

The factory default setting for Quiet Ride is “On” and your unit is already preset to silence alerts when you travel below 25 MPH.

To change the speed at which alerts are silenced:

- **Press and hold MENU button** for 3 seconds to access the Menu Function.

- **Press release MENU button** to scroll through functions until you reach Quiet Ride. The display shows Quiet On.

- **Press and hold MUTE button** for 3 seconds to access speed options.

- **Press and release MUTE button** to scroll through speed selections. With each press, speeds between 20 - 65 MPH are displayed in increments of 5 MPH. (20, 25, 30, etc.)

Stop pressing button when you reach your desired Quiet Ride speed. For example, if 45 is your desired setting, stop pressing when the display shows 45 MPH.

The RL100 automatically saves your settings after 10 seconds, exits the Menu Function and the display returns to the main screen.

**NOTE:** Locations that you have “Marked for Alert” are not affected by the Quiet Ride function and will initiate alerts at any speed. (see page 12)
Windshield Mounting Bracket (with suction cups) - For proper installation (page 4)

Power Input Jack - Insert small end of power cord here

Power Cord - Plug into cigarette lighter or other 12v outlet

Power On/Volume Control Wheel - Turn on the RL100 unit and adjusts volume of voice/tones

MENU/DIM Button - Press and release to change display brightness from bright (factory default) to dim or dark, or press and hold for 3 seconds to enter MENU mode (page 14)
Speaker - Alerts delivered via voice and tones

FILTER Button - Press and release to select level of alert sensitivity (page 8), or enter “Speed Monitor” function by pressing and holding for 3 seconds (page 13)

MARK Button - Identify and “mark” specific locations (such as construction and school zones) to receive alerts (page 12)

MUTE Button - Press and release to mute audio for 15 seconds or the duration of the alert. Press and hold for 3 seconds to engage a 2-minute mute (pages 12-13)

Alphanumeric Display - Provides alert information as well as mph, compass and setting status

To Set Preferences - Both MENU and MUTE buttons are used to change settings of customizable settings (pages 14 – 15).
Mark Location

The “Mark” function allows you to receive both audio and visual alerts for specific locations you’ve stored. (Examples: school zone, speed camera, red-light camera intersection).

- To activate, press and release MARK button when you are at the location.
- Display shows Alrt Loc and voice announces “Marked to Alert”
- After marking the location, in the future the RL100 will alert you:

<table>
<thead>
<tr>
<th>When you arrive...</th>
<th>You will hear a...</th>
</tr>
</thead>
<tbody>
<tr>
<td>...within a radius of 1500 feet of the marked location</td>
<td>...&quot;Bing Bong&quot; tone and the display will show Alrt Loc</td>
</tr>
<tr>
<td>...at a marked location</td>
<td>...single “Bing” tone</td>
</tr>
</tbody>
</table>

To remove a previously marked location: Press and release MARK button while in that location.

To remove all currently stored locations: Press and hold MARK button for 5 seconds at any time.

Mute Sounds

Using the MUTE button, the RL100 provides you two ways to mute audio alerts (both voice and tones):

- OPTION 1: Silence all audio after an alert has sounded.
- OPTION 2: Silence all audio for a preset time before any alert occurs. (Example: You may mute sounds for 2 minutes prior to making a phone call.)
For either option, here’s how to mute your device:

<table>
<thead>
<tr>
<th>Mute audio for 15 seconds or the duration of the alert</th>
<th>Press and release MUTE button</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mute audio for 2 minutes or the duration of the alert</td>
<td>Press and hold MUTE button for 3 seconds</td>
</tr>
</tbody>
</table>

After pressing the MUTE button, the display will show Mute On and the voice will announce “Mute On.”

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

**Speed Monitor**

The Speed Monitor function alerts the driver when a pre-selected speed is exceeded. The Speed Monitor can be set to any speed between 40-100 mph in 5 mph increments.

When the preset speed is exceeded:

- The RL100 emits a beeping alert tone accompanied by the visual display blinking Slow then Down repeatedly.
- The alerts will continue until the vehicle’s speed is reduced to below the Speed Monitor setting.

The factory default setting for Speed Monitor is “Off.” To access and turn on this function:

- **Press and hold FILTER button** for 3 seconds.
- **Press and release MUTE button** to select the desired maximum speed for alerts.
- 5 seconds after your speed is selected, your setting will be saved, the voice will announce “Exit” and your display will return to the main screen.
Menu / Customizable Settings

The RL100 comes with factory default settings on certain features that we’ve learned are desirable for our customers. However, we provide you with the option of changing the settings based on your preferences.

To access and change any of the 12 selectable preferences:

- **Press and hold MENU button** for 3 seconds. The voice will announce “Menu” and the display will read *MENU*.

- **Press and release MENU button** to scroll through the preferences in the order listed on the following page. Continue 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** to continue scrolling to another preference.
<table>
<thead>
<tr>
<th><strong>Menu Options</strong> (in order displayed)</th>
<th><strong>Default Setting</strong></th>
<th><strong>Description</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Voice Type</td>
<td>Female</td>
<td>Choose male or female voice for audio alerts.</td>
</tr>
<tr>
<td>2 Audible Voice</td>
<td>On</td>
<td>For all initial audio alerts: “Voice On” uses voice; “Voice Off” uses tones only.</td>
</tr>
<tr>
<td>3 Test</td>
<td>On</td>
<td>Controls length of startup sequence after powering on unit. “Test On” is standard 5-second test. “Test Off” uses an abbreviated sequence.</td>
</tr>
<tr>
<td>4 Speed Displayed</td>
<td>On</td>
<td>“Speed On” displays current speed in mph when driving over 5 mph. “Speed Off” turns off this display.</td>
</tr>
<tr>
<td>5 Compass Heading</td>
<td>On</td>
<td>Displays current compass heading when driving over 5 mph.</td>
</tr>
<tr>
<td>6 POP Radar Band</td>
<td>Off</td>
<td>Enables the detection of POP radar, a very short transmission signal that does not transmit long enough to gather information needed to issue a speeding ticket.</td>
</tr>
<tr>
<td>7 Quiet Ride</td>
<td>On</td>
<td>All audio alerts – except for “Marked to Alert” locations – are automatically muted when driving below a preset speed. Factory setting is 25 MPH.</td>
</tr>
<tr>
<td>8 X-Band</td>
<td>On</td>
<td>Enables the detection of X-Band radar.</td>
</tr>
<tr>
<td>9 K-Band</td>
<td>On</td>
<td>Enables the detection of K-Band radar.</td>
</tr>
<tr>
<td>10 KA- Band</td>
<td>On</td>
<td>Enables the detection of KA-Band radar.</td>
</tr>
<tr>
<td>11 Laser</td>
<td>On</td>
<td>Enables the detection of laser.</td>
</tr>
<tr>
<td>12 Factory Reset</td>
<td>RESET!</td>
<td>Returns the K40 to its original factory defaults for all settings.</td>
</tr>
</tbody>
</table>

**To save your settings and exit:**

- **Press and hold MENU button** for 3 seconds. (or do nothing for 10 seconds)

  - The display will show **EXIT** and the voice will announce “Exit”.
## Troubleshooting Guide

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>No visual display or audio (unit not receiving power)</strong></td>
<td>Plug not inserted properly</td>
<td>Reinsert plug and rotate</td>
</tr>
<tr>
<td></td>
<td>Blown fuse in power cord</td>
<td>Replace fuse with 1 amp 250 Volt 3AG fuse</td>
</tr>
<tr>
<td></td>
<td>Lighter socket not clean or negatively grounded</td>
<td>Consult your dealer or auto mechanic</td>
</tr>
<tr>
<td></td>
<td>Defective fuse or electrical wiring for lighter socket</td>
<td>Consult your dealer or auto mechanic</td>
</tr>
<tr>
<td><strong>Week or no detection range</strong></td>
<td>Partially blocked antenna or lens opening</td>
<td>Reposition the unit to ensure unobstructed view of the road ahead</td>
</tr>
<tr>
<td></td>
<td>Radar/laser signals unable to pass through windshield</td>
<td>Determine if your vehicle has a heated windshield or is covered with a metallic sun-screen. Check your vehicle’s owner’s manual or consult with your dealer.</td>
</tr>
<tr>
<td><strong>Erratic or frequent alerts</strong></td>
<td>High concentration of non-police X-band sources</td>
<td>Use Filter Mode (see page 8)</td>
</tr>
</tbody>
</table>

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If you have any questions, please call one of our experienced product consultants toll-free at 800.323.6768

### Warranty

K40 Electronics offers a one-year “repair or replace” warranty if your RL100 fails to work properly. **To ensure you are covered by our warranty please register your product online today by visiting K40.com.**
Product subject to one or more of the following patents:

U.S. Patents
7,298,248 B2
5,001,777
RE39,038
RE40,653
RE41,905

Other patents pending

Learn more at K40.com
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.