

K40TM
ELECTRONICS

*Portable All-Band Radar
and Laser Detector with
GPS Technology*



RLS2
Owner's Manual

K40 Consult

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K40 ELECTRONICS

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Mounting and Powering the RLS2

Mounting Instructions

To help ensure that your RLS2 functions properly and offers maximum protection, please follow these mounting instructions:

1. **Clean** the area of the windshield where the RLS2 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 RLS2 behind wipers or any metal obstructions.
 - c. Slide the RLS2 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 RLS2 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 RLS2 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 supplied **Power Cord** into the **Power Input Jack** on the left side of the RLS2.
2. Plug the large end of the **Power Cord** into your vehicle's 12V outlet.

3. Switch on the RLS2 by rotating the **Power On / Volume Control Wheel** located on the left side of the unit.

No power? See Troubleshooting Guide on page 17.

Wake-Up Sequence

(using factory default settings)

Once your K40 RLS2 has been mounted and had the power connected, you may begin use immediately by following these steps:

1. **Switch on the RLS2 – Rotate the Power On / Volume Control Wheel** on the left side of the unit.
2. **Listen for Wake-Up Sequence** – The RLS2 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 report.
 - b. Upon completion of the “wake-up sequence,” the screen will display **Highway** (Filter setting).
 - c. After locating available satellites, the RLS2 will announce, “GPS Connected,” then display **GPS**.
3. **You’re ready to drive!** – The RLS2 will now display your Filter setting, direction of travel, and speed. For example, if you are driving West at 57 mph / kph and the Filter is on the Highway setting, the display will show:



Filter Travel Speed
HIGHWAY Direction **57 mph / kph**
WEST

Want help programming your RLS2?
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Receiving Alerts

The K40 RLS2 provides a combination of audio and visual alerts to warn you when radar and laser signals are detected.

Radar Alert Sequence

The RLS2 detects all North American police radar signals (X, K, and Ka-Band). 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.
- 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 45 mph and a weak K-Band signal 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 RLS2 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 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: 

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

Alerts from Non-Police Signals

Your RLS2 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 8) and Quiet Ride (page 9).

K-Band Filter

Your RLS2 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 RLS2 will reject alerts from traffic flow sensors usually encountered during highway driving. Enable this filter through the menu (page 15-16).

Special Features / Functions

DIM

- **Press and release DIM / MENU 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 RLS2 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**.

Settings	Sensitivity	Recommended Use
1. Highway <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.
2. City	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.
3. Filter	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.

QUIET RIDE

The Quiet Ride function will automatically silence all radar and laser alerts when traveling under a speed setting of your choice between 5 - 75 mph in 5 mph increments or 10 - 120 kph in 10 kph increments.

Visual alerts are unaffected by Quiet Ride settings.

The factory default setting for Quiet Ride is "Off."

The factory default setting for Quiet Ride is "mph" ("mph" may be changed to "kph" in the menu).

To access this function:

- **Press and release QUIET RIDE button** to activate the Quiet Ride menu. Voice will announce the current setting e.g., "Quiet Ride Off," or the current speed setting, "Quiet Ride, 25, 30, 35..."
- Use **▲ or ▼ buttons** to adjust the speed settings on Quiet Ride. Any selected speed setting indicates Quiet Ride is on.
- When you have made your desired Quiet Ride speed selection, stop scrolling and voice will announce, "Quiet Ride Set."

NOTE: Locations that you have "Marked to Alert" (page 13) are unaffected by Quiet Ride settings.

Reference Guide

RLS2 Radar and Laser Detection

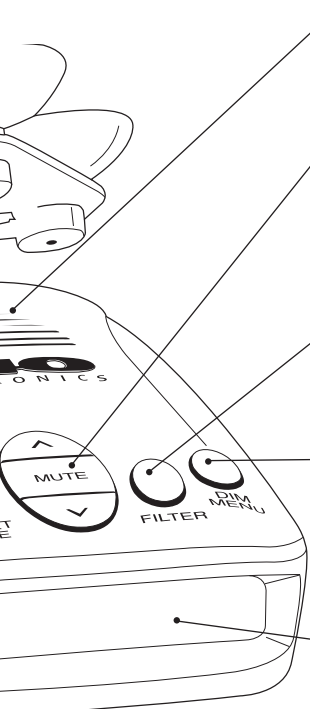
Windshield Mounting Bracket (with suction cups) – For proper installation (page 4).

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 RLS2 and adjust volume of voice / tones (page 4).

MARK Button – Press and hold to mark specific locations for alert. Press and release to mute specific radar / laser alerts in a location (pages 12-13).

QUIET RIDE Button – Press and release to confirm speed setting and enter Quiet Ride menu (page 9).



Speaker – Alerts delivered via voice and tones.

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 (pages 13-14).

FILTER Button – Press and release to select level of alert sensitivity (page 8).

DIM / MENU Button – Press and release to adjust display brightness (page 8), or press and hold for 3 seconds to enter MENU mode (pages 15-16).

Dot Matrix Display – Provides alert information as well as Filter setting, compass direction, and speed in mph / kph via alphanumeric text.

To Set Preferences – Both **DIM / MENU** and **^ or V buttons** are used to change settings.

MARK TO MUTE

This function mutes non-police radar/laser alerts (i.e. an automatic door) in specific GPS locations.

- **Press and release MARK button** to mute a specific radar band / laser alert.
- Voice announces that a specific radar band / laser alert has been muted (i.e. "K Muted").
- Audible alerts are silenced within a 1,500 ft. diameter of the selected location.
- Visual alerts will still appear on the dot matrix display.
- All other radar bands or laser alerts remain unaffected.

To remove individual muted locations from your database:

- **Press and release the MARK button** in the marked location.
- Voice announces that a specific radar band / laser alert has been removed (i.e. "K Muted Removed").

To remove ALL muted locations from your database:

1. **Press & hold DIM/MENU button** for three seconds to enter Menu options.
2. **Continuously press and release DIM/MENU button** until "All Muted Locations Saved" option is announced.
3. **Press & release V button** to select "All Muted Locations Cleared" option.
4. **Press & hold MARK button.** "Bing bong" tone confirms all locations have been cleared.

MARK TO ALERT

The Mark to Alert function allows you to add specific GPS locations to your personal database, alerting you to any point of interest you choose (such as school zones, speed traps, or red light cameras).

- **Press and hold MARK button** when you want to mark a location for alert.
- Voice announces, "Marked to Alert."

In the future, you will be alerted as follows:

When you arrive...	You will hear...
...within a radius of 750 feet of a marked location	..."Approaching marked location" and the display will show Alert Loc
...at a marked location	...a single "Bing" tone

To remove a previously marked location from your database:

- **Press and hold MARK button** for 5 seconds while in the marked location.
- Voice announces, "Marked Location Removed."

To remove all alert locations, follow Pg. 12, Steps 1-4, but instead select "All Alert Locations" options.

MUTE

Using the **MUTE button**, the RLS2 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 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.

SPEED MONITOR

Speed Monitor alerts the driver when a preselected speed is exceeded. Speed Monitor can be set to any speed between 40 - 100 mph in 5 mph increments or 60 - 160 kph in 10 kph increments.

When the preset speed is exceeded:

- The RLS2 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."

The factory default setting for Speed Monitor is "mph" ("mph" may be changed to "kph" in the menu).

To access this function:

- **Press and hold FILTER button** for 3 seconds.
- **Press and release \wedge or \vee buttons** to select the desired maximum speed for alerts.
- Your setting will be saved, the voice will announce, "Speed Monitor Set," and the display will return to the main screen.

Menu / Customizable Settings

The RLS2 comes with factory default settings on certain features that we've learned are desirable for our customers.

To access and change any of the 15 selectable preferences:

- **Press and hold DIM / MENU button** for 3 seconds. The voice will announce, "Menu," and the display will read ***MENU***.
- **Press and release DIM / 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 \wedge or \vee button**. Both the display and voice will announce the change.
- **Press and release DIM / MENU button** to continue scrolling to another preference.

To save your settings and exit:

- **Press and hold DIM / MENU button** for 3 seconds, or wait 10 seconds and the system will automatically save your preferences.
- The display will show **Exit** and the voice will announce, "Exit."

(see the following page for a list of Customizable Settings)

Menu Options <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 RLS2. "Wake-Up Long" is a 5-second sequence. "Wake-Up Short" uses an abbreviated sequence.
4	Speed Displayed	On	"Speed On" displays current speed in mph / kph when driving over 5 mph / kph. "Speed Off" turns off this display.
5	Compass Heading	On	Displays current compass heading when driving over 5 mph / kph.
6	Traffic Sensor Filter	Off	Enables filtration of K-Band radar signals from traffic flow sensors.
7	mph / kph	mph	Choose mph or kph.
8	Automute	Off	Automatically reduces volume by 50% after 5 seconds.
9	X-Band	On	Enables the detection of X-Band radar.
10	K-Band	On	Enables the detection of K-Band radar.
11	Ka-Band	On	Enables the detection of Ka-Band radar.
12	Laser	On	Enables the detection of laser.
13	Mute Locations	N/A	Clears all stored muted locations. See pg. 12.
14	Alert Locations	N/A	Clears all stored alert locations. See pg. 13.
15	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
No visual display or audio (RLS2 not receiving power)	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.
Weak or no detection range	Partially blocked antenna or lens opening.	Reposition the RLS2 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.
Erratic or frequent alerts	High concentration of non-police radar sources.	Use Filter Mode (see page 8).

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

Warranty

The K40 RLS2 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 RLS2 purchase.

100% Performance Guarantee

If your RLS2 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 RLS2 for one full year from date of purchase.

To ensure you are covered by these guarantees, please register your RLS2 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

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FCC ID: W75-RLS2

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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