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Garmin 010-02902-00

Garmin zūmo™ R1 Radar User Manual

Model: 010-02902-00

Product Overview

The Garmin zūmo™ R1 Radar is a compact, high-performance rearview and blind spot radar system designed specifically for motorcycles. It enhances rider awareness and visibility by detecting vehicles behind and in blind spots, providing alerts through external lights, audio, and a full-screen radar display when paired with a compatible device.

This device is engineered to offer excellent coverage, range, and accuracy, contributing to a safer riding environment. It features side-facing amber lights and high-visibility red rear-facing lights to increase your motorcycle's presence to other vehicles. Heads-up indicator lights further promote situational awareness.

The zūmo R1 Radar can be paired with a Garmin zūmo® XT2 motorcycle navigator or a compatible smartphone via the zūmo Radar smartphone app for visual and audio alerts. Please note that adverse weather conditions and wet roads may affect device operation. Always maintain awareness of your surroundings.

Setup and Installation

What's in the Box

- zūmo R1 Radar unit
- Indicator lights
- Motorcycle mounting kit
- Documentation (this manual)

Mounting the zūmo R1 Radar

The zūmo R1 Radar is designed for discreet mounting to your motorcycle's license plate. Its rugged and sleek design ensures it withstands various weather and road conditions while preserving the aesthetic of your motorcycle.



Image: The zūmo R1 Radar unit is shown mounted discreetly above a motorcycle's rear license plate, demonstrating its integrated appearance.

For detailed installation instructions, refer to the included motorcycle mounting kit guide. Ensure the radar unit is securely fastened and has a clear line of sight to the rear.

Connecting the Indicator Lights

The external indicator lights provide visual alerts for approaching vehicles. These lights are wired into your motorcycle's electrical system. The heads-up indicator lights can be positioned for optimal visibility, typically near the handlebars, while the side-facing amber lights and rear-facing red lights enhance your motorcycle's visibility to others.

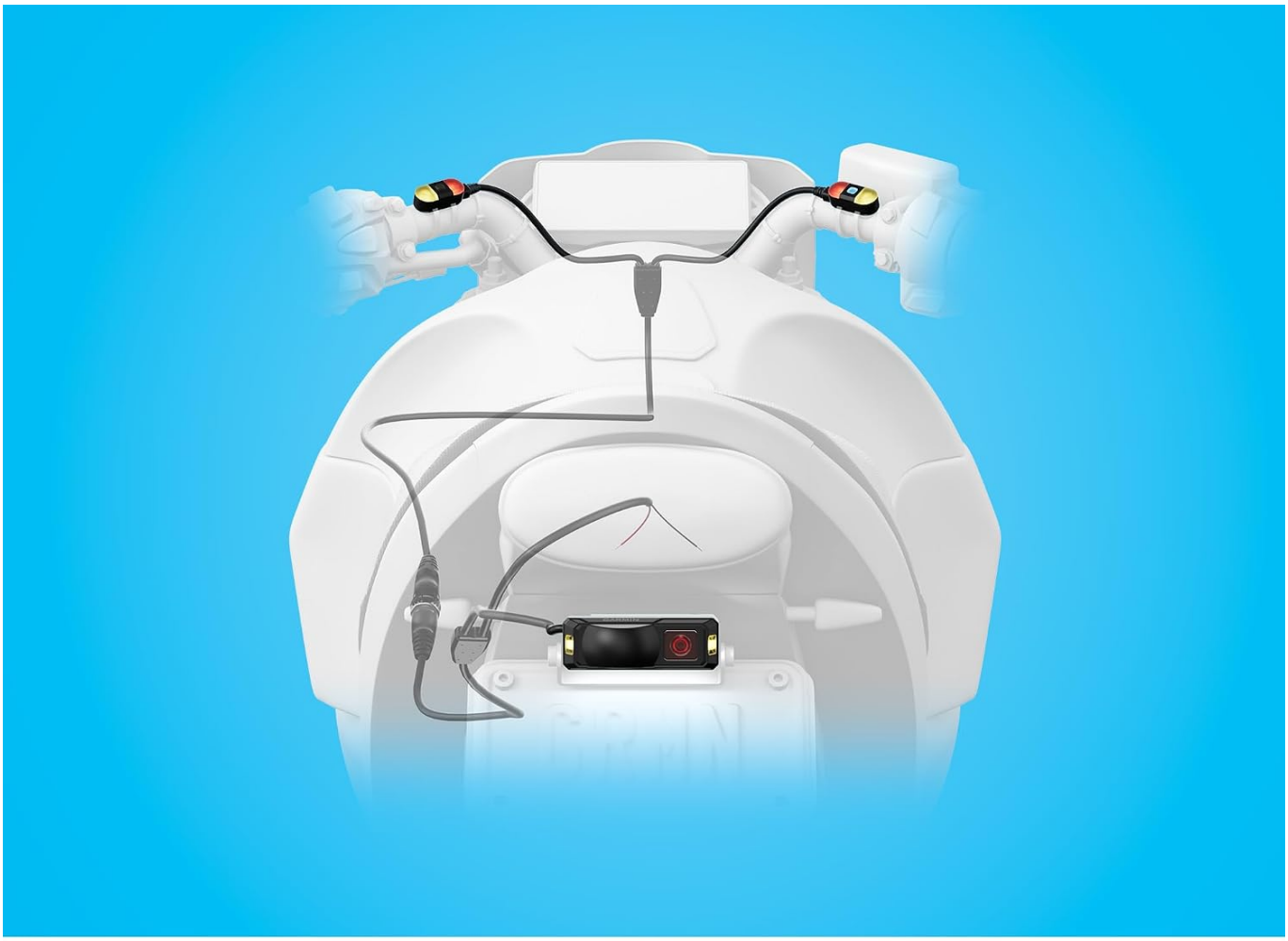


Image: An overhead diagram illustrates the wiring connections for the zūmo R1 Radar and its associated indicator lights on a motorcycle, showing how they integrate with the bike's system.

Ensure all connections are secure and waterproof. Consult a professional if you are unsure about the electrical installation.

Operation

Pairing with zūmo XT2 Navigator or Smartphone

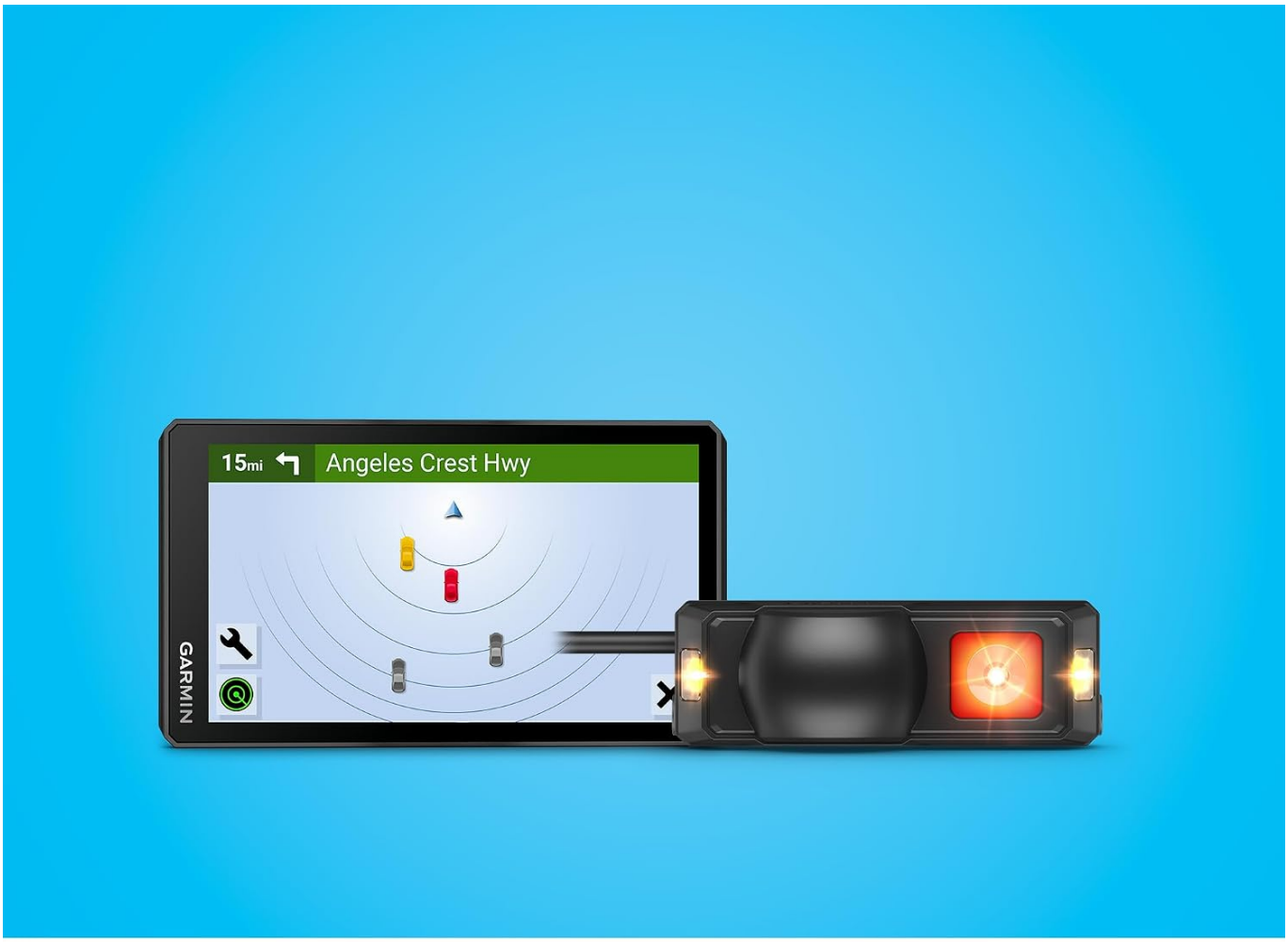
To utilize the full features of the zūmo R1 Radar, pair it with your Garmin zūmo XT2 motorcycle navigator or a compatible smartphone running the zūmo Radar smartphone app. This allows for a full-screen radar display of nearby vehicles.



High-performance rearview and blind spot motorcycle radar[1] provides awareness and visibility while sharing the road with others.

[1]Adverse weather conditions and wet roads may interfere with operation of the device. Always maintain awareness of your surroundings while using this device, especially in these conditions.

Image: The zūmo R1 Radar unit is shown alongside a smartphone displaying the zūmo Radar app interface, which visually represents detected vehicles.



View a full-screen radar display when paired with your compatible smartphone or your zūmo XT2 motorcycle navigator.

Image: The zūmo R1 Radar unit is depicted next to a zūmo XT2 motorcycle navigator, which shows the radar display integrated into its navigation screen.

Follow the pairing instructions provided within the zūmo Radar app or your zūmo XT2 navigator's settings menu.

Understanding Radar Display and Visual Alerts

The full-screen radar display on your paired device shows the relative position and speed of vehicles approaching from behind. The heads-up indicator lights provide immediate visual cues, changing color or pattern to indicate the proximity and number of detected vehicles. The side-facing amber lights and rear-facing red lights illuminate to alert other drivers to your presence and the detection of vehicles.

Audio Alerts

When paired with your headset via the zūmo Radar smartphone app, the system provides audio alerts to increase your road awareness without diverting your eyes from the road. These alerts notify you of surrounding vehicles, allowing you to maintain focus on the path ahead.

Adjusting Radar Sensitivity

You can customize the radar sensitivity settings through the zūmo Radar smartphone app to suit your preferences and riding conditions. This allows you to fine-tune how the device detects and alerts you to surrounding vehicles.

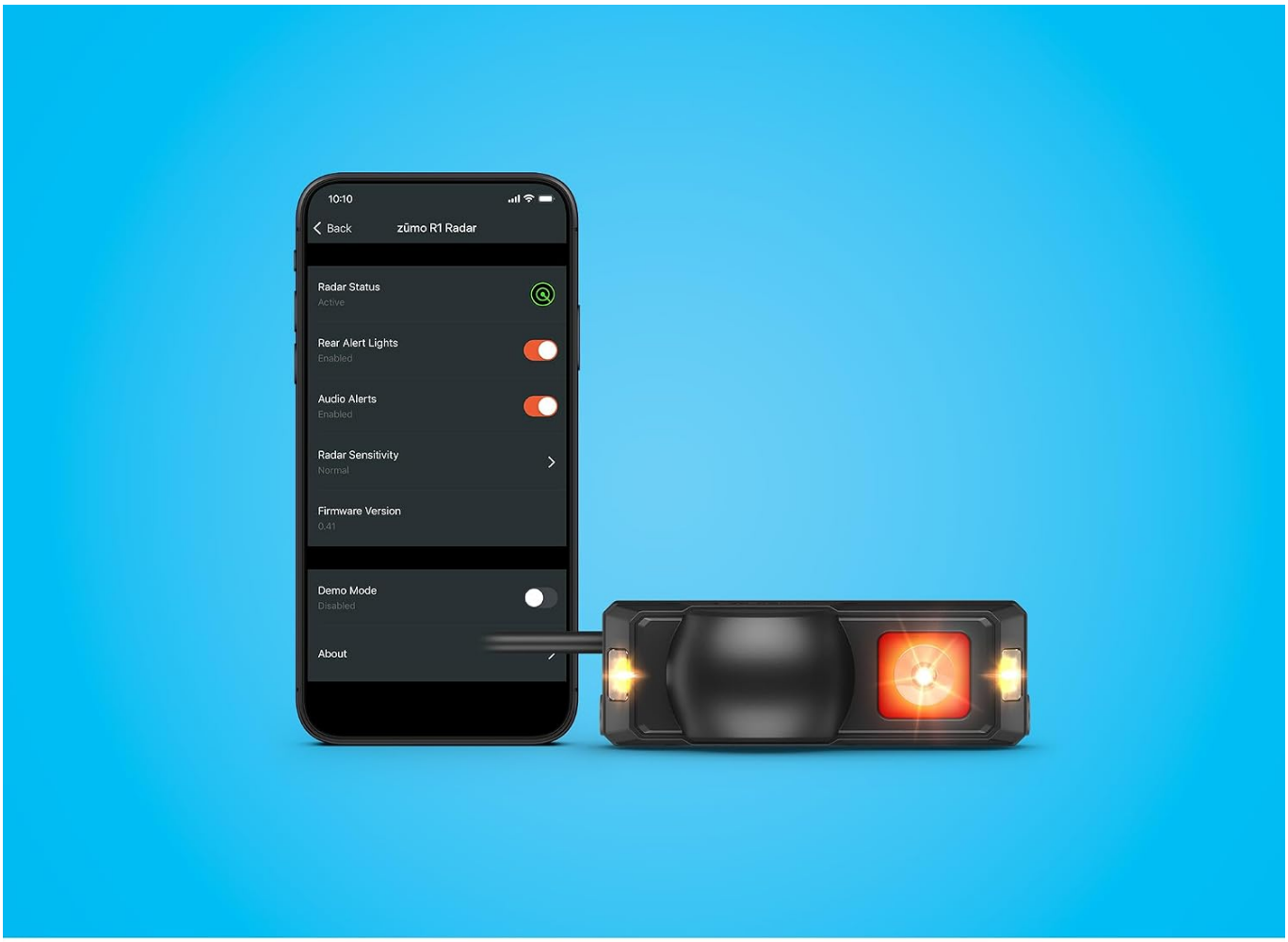


Image: The zūmo R1 Radar unit is shown next to a smartphone displaying the settings menu of the zūmo Radar app, including options for radar status, alert lights, audio alerts, and radar sensitivity.

Maintenance

Cleaning the Device

To maintain optimal performance, regularly clean the zūmo R1 Radar unit and indicator lights. Use a soft, damp cloth to wipe away dirt and debris. Avoid using harsh chemicals or abrasive materials that could damage the device's surface or sensors.

Weather Considerations

While the zūmo R1 Radar is built to withstand various weather conditions, adverse weather, such as heavy rain or fog, and wet roads may interfere with its operation. Always exercise caution and maintain full awareness of your surroundings, especially in challenging conditions. Ensure the radar lens is clear of water droplets or mud for best performance.

Troubleshooting

Issue	Possible Cause / Solution
Device not connecting to zūmo XT2 or smartphone.	• Ensure Bluetooth is enabled on both devices. • Restart both the zūmo R1 Radar (by cycling motorcycle power) and the paired device (zūmo XT2 or smartphone). • Forget the device in Bluetooth settings and re-pair. • Check the zūmo Radar app or zūmo XT2 for connection status. If it shows connected but isn't working, disconnect and reconnect.
Radar not detecting vehicles or inconsistent detection.	• Ensure the radar lens is clean and unobstructed. • Check radar sensitivity settings in the zūmo Radar app; adjust to a higher sensitivity if needed. • Adverse weather conditions (heavy rain, fog) can affect performance. • Verify proper mounting and alignment of the radar unit.
Indicator lights not functioning.	• Check all wiring connections for security and corrosion. • Ensure the lights are enabled in the zūmo Radar app settings. • Verify power supply to the radar system.
Audio alerts not working.	• Ensure your headset is properly paired and connected to your smartphone. • Check that audio alerts are enabled in the zūmo Radar app settings. • Verify the volume settings on your smartphone and headset.

Technical Specifications

Feature	Specification
Product Dimensions	1.1"L x 1.2"W x 3.1"H (2.79 cm x 3.05 cm x 7.87 cm)
Item Weight	3.44 ounces (97.5 g)
Item Model Number	010-02902-00
Connectivity Technologies	Bluetooth
Special Features	Bluetooth, Radar Warning
Color	Black
Compatible Devices	Smartphone, Garmin zūmo XT2 Navigator
Frequency Bands Supported	10.525 GHz, 24.125 GHz, 34.7 GHz
Power Source	Vehicle Power Socket
Display Type	LED (for indicator lights)

Warranty and Support

Garmin products are built to the highest quality standards. For information regarding your product's warranty, please refer to the warranty card included with your purchase or visit the official Garmin website.

For technical support, frequently asked questions, and additional resources, please visit the Garmin Support Center:

support.garmin.com

You can also contact Garmin customer service directly for personalized assistance.

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