

Model 932 Multi-Geometry Handheld Retroreflectometer

PRODUCT SUMMARY

The RoadVista model 932 is a handheld retroreflectometer designed for use in the field or in a laboratory or QA/QC environment. It is designed to fully characterize the retroreflection (R_n) and retroreflected night-time (CIE1931xy) color of road signs, high visibility safety clothing and other materials.

This patent-pending design allows you to know, with the press of a button, exactly how bright your retroreflector will appear to most drivers, as well as determine if the color falls within the defined color box.

The adjustable entrance angle and observation allows for complete characterization of most retroreflectors, including full high-visibility clothing retroreflective testing to EN471 and ANSI107.

The Model 932 comes standard with a Bluetooth wireless interface and USB computer interface both allowing for remote operation of the instrument and data logging. The internal memory has the capacity to store more than 32000 measurements.

The sensitive light sensor meets ASTM E1709 and ASTM E2540 requirements with the CIE standard human eye response in conjunction with the CIE illuminant "A" lamp. Our world-class photometric filter fit is unmatched by the competition and allows extremely accurate measurements of other colors using the single white reference standard with no correction factors.



FEATURES

- *Measures all types of retroreflective materials with a single measurement*
- *Meets ASTM, CIE, ANSI, BS, EN & DIN specifications*
- *Continuously Variable observation angle from 0.2° to 2.0°*
- *Continuously Variable entrance angle from -45° to +45°*
- *World-class photopic-corrected detector and source "A"*
- *Requires only 1 reference standard without any correction factors*
- *Self-contained commercially available battery or mains power*
- *Graphical TFT-color touch-screen display*
- *Built-in Bluetooth Wireless Capability*
- *USB Computer Interface*
- *Built-in averaging*
- *Internal storage for more than 32000 measurements*
- *Foam-lined carrying case*
- *Data Management Software (DMS) allows the user to quickly transfer data from the instrument to a computer via the USB connection for data management and report generating*



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Website: www.RoadVista.com

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SPECIFICATIONS

Geometry

Entrance Angle:	Continuously Available from -45° to +45° with Electronic Feedback
Observation Angle:	Stepper Controlled, Continuously Adjustable from 0.2° to 2.0°
Light Source angular aperture	0.1°
Receiver angular aperture (point)	0.1°
Field of Measurement	1 inch (25 mm) diameter spot

Specifications

Standards	Meets all requirements of ASTM E1709 ASTM E2540, EN12899 Performs testing in compliance with the following specifications: ASTM D4956, EN471, ANSI 107
Detector Responsivity	Photopic response in accordance with ASTM E1709 paragraph 6.4.2 and ASTM E2540 paragraph 6.4.2
Range (cd/lx/m ²)	0-10,000
Data Memory	>32,000 measurements
Color Measurement	Determines CIE 1931 xy retroreflected night-time color coordinates
Computer Interface	USB and Bluetooth
Power Supply	removeable 12 VDC, 2.4 Ah battery (DeWalt P/N DC9071)
Charger	110 VAC, 60 Hz (add -1 after model number) 12 VDC cigarette lighter (add -2 after model number) 220 VAC, 50 Hz (add -3 after model number)
Operating Temperature	0°C to 50°C (32°F to 122°F)
Operating Humidity	0 to 95% non-condensing
Length	Approx. 15 inches (380 mm)
Width	Approx 4.5 inches (115 mm)
Height	Approx 12.75 inches (325 mm) with battery
Weight	Approx 6.4 lbs (2.9 kg) with battery



Accessories

Standard Accessories	Foam-lined Carrying Case Measurement Area Reducers Battery Charger Two (2) Batteries Calibration Standard Calibration Certificate Windows Data Management Software
Optional Accessories	Annual Calibration Service



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