

922 Handheld Sign Retroreflectometer



ROADVISTA

a  GAMMA SCIENTIFIC company

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Retroreflectometers

With over three decades of highway safety leadership and innovation, RoadVista has set the standard in retroreflectometer accuracy, reliability and usability.

RoadVista, a Gamma Scientific company, is committed to making roads visibly safer with a complete selection of instruments and laboratory testing services for retroreflection.

Applications

- Traffic Signs
- Pavement Markings
- Sign Sheeting
- Safety Clothing
- Light Testing Services and Calibration

Additional Instruments

To view the complete line of retroreflectometers from RoadVista, visit www.RoadVista.com

RoadVista
9925 Carroll Canyon Rd.
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www.roadvista.com

Ensures a cost effective, safe, absolute means of meeting the minimum retroreflectivity requirements for traffic signs. Captures measurements for any type of retroreflective material and measures to ensure compliance with MUTCD minimum retroreflectivity requirements.

The RoadVista model 922 is a handheld sign retroreflectometer designed for use in the field. It is designed to measure the retroreflection (RA) of road signs and other materials. The RoadVista model 922 is an integral component of any program to maintain minimum retroreflectivity levels.

ASTM has issued a new specification to require measurements to be performed at an observation angle of 0.5 degrees. The 922 is the perfect instrument for this addition. Utilizing the ASTM standard "annular" geometry, the 922 measures observation angles of 0.2 and 0.5 degrees simultaneously, with an entrance angle of -4 degrees. This patented (US Patent # 7,961,328) design allows you to know, with the press of a button, exactly how bright your sign will appear to most drivers.

A European version is available with a standard 0.33 degree observation angle and +5 degree entrance angle.



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Features

- Measures signs to ensure compliance with the new MUTCD minimum retroreflectivity requirements
- Measures all types of retroreflective materials with a single measurement
- Meets ASTM, CIE & DIN specifications
- US Patent # 7,961,328
- Utilizes annular measurement geometry - no averaging of measurements on micro-prismatic material necessary
- Dual observation angles of 0.2° and 0.5° for simultaneous measurements
- Measurement time is less than 1 second
- World-class photopic-corrected detector and source "A"
- Requires only one reference standard without any correction factors
- Self-contained commercially available battery
- Digital liquid-crystal touch-screen display
- Built-in GPS
- Made in the USA



922 Retroreflectometer Specifications

Geometry			
	Model 922 (ASTM E1709 & E2540)	Model 922D (DIN 67520 & EN 12899-1)	Model 922E (EN471 for Safety Clothing)
Entrance Angle	-4°	+5°	+5°
Observation Angle	0.2° and 0.5°	0.33°	0.2° and 0.5°
Light Source Angular Aperture	0.1°	0.1°	0.1°
Receive Angular Aperture (Annular)	0.1°	0.1°	0.1°
Field of Measurement	1 in (25 mm) diameter spot	1 in (25 mm) diameter spot	1 in (25 mm) diameter spot
Specifications (All Models)			
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)	0-2000		
Data Memory	> 4500 measurements		
Computer Interface	USB		
GPS	12-Channel WAAS enabled for < 3 meter position fix uncertainty		
Barcode Reader	Programmable Symbologies Laser Scanner		
Power Supply	Removable 12 VDC, 2.4 Ah battery (DeWalt P/N DC9071)		
Charger	110 VAC, 60 Hz (add -1 after model #); 12 VDC cigarette lighter (add -2 after model #); 220 VAC, 50 Hz (add -3 after model #)		
Operating Temperature	0°C to 50°C (32°F to 122°F)		
Operating Humidity	0 to 95% non-condensing		
Length	Approximately 11.5 inches (290mm)		
Width	Approximately 4.5 inches (115mm)		
Height	Approximately 12.75 inches (325mm) with battery		
Weight	Approximately 5.9 lbs (2.7kg) with battery		
Standard Accessories			
Foam-lined carrying case			
Measurement Area Reducers			
Battery Charger			
Two Batteries			
Calibration Standard			
Calibration Certificate			
Windows Software with Mapping			
Optional Accessories			
Annual Calibration Service			
922-EAA Adjustable Entrance Angle Attachment (allows entrance angle to be adjusted from -40 to 40 degrees continuously)			
922-EPK Extension Pole Kit with remote IrDA trigger			