

Model 922 Handheld Sign Retroreflectometer

PRODUCT SUMMARY

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.

Since a significant portion of the vehicles on the road are now SUV's and pickup trucks, ASTM has drafted a specification to require measurements to be performed at an observation angle of 0.5 degrees in addition to the existing 0.2 degrees. The 922 is the perfect instrument for this upcoming change over. 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.

The patented design enables you to know with the press of a button exactly how bright your sign will appear to most drivers. The annular geometry means you will not have to take an average of 2 measurements with prismatic-type materials further simplifying the measurement process. A European version is available with a standard 0.33 degree observation angle and +5 degree entrance angle.

The Model 922 comes standard with an internal global positioning system (GPS), Bluetooth, and an internal barcode reader. The internal memory has the capacity to store more than 4500 measurements. Uploading the data to a computer is easy with the USB interface.

The sensitive light sensor meets ASTM E1709 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.

If field measurement is needed for high-mounted traffic signs, the Model 922-EPK extension pole kit with remote IrDA trigger is recommended.



US Patent 7,961,328

FEATURES

- Measures all types of retroreflective materials with a single measurement
- Meets ASTM, CIE & DIN specifications
- Utilizes annular measurement geometry – no averaging of measurements on micro-prismatic material necessary
- Dual observation angles of 0.2o and 0.5 o for simultaneous measurements
- European geometry also available
- World-class photopic-corrected detector and source "A"
- Requires only 1 reference standard without any correction factors
- Self-contained commercially available battery
- Digital liquid crystal touch-screen display
- Bluetooth
- Built-in WAAS-enabled GPS
- Built-in programmable barcode reader
- USB Computer Interface
- Built-in averaging
- Internal storage for approximately 4500 measurements
- Foam-lined carrying case
- Optional extension pole kit with IrDA remote control



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SPECIFICATIONS

Geometry

Model 922 (ASTM E1709)	Model 922D (DIN 67520)	Model 922E (ANSI 107 and EN471 for safety clothing)
Entrance Angle: -4°	Entrance Angle: +5°	Entrance Angle: +5°
Observation Angle: 0.2° and -0.5°	Observation Angle: 0.33°	Observation Angle: 0.2° and -0.5°
Light Source angular aperture 0.1°	Light Source angular aperture 0.1°	Light Source angular aperture 0.1°
Receiver angular aperture (annular) 0.1°	Receiver angular aperture (annular) 0.1°	Receiver angular aperture (annular) 0.1°
Field of Measurement 1 in (25 mm) diameter spot	Field of Measurement 1 in (25 mm) diameter spot	Field of Measurement 1 in (25 mm) diameter spot

Specifications (applies to all models)

Detector Responsivity	Photopic response in accordance with ASTM E1709 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	Removeable 12 VDC, 2.4 Ah battery (DeWalt P/N DC9071 or equivalent)
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. 11.5 in (290 mm)
Width	Approx. 4.5 in (115 mm)
Height	Approx. 12.75 in (325 mm) with battery
Weight	Approx. 5.9 lbs (2.7 kg) with battery



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Accessories

Standard Accessories

- Foam-lined Carrying Case
- Measurement Area Reducers
- Battery Charger
- Two (2) Batteries
- Calibration Standard
- Calibration Certificate
- Windows Software with Mapping



Optional Accessories

- Annual Calibration Service
- 922-EAA Adjustable Entrance Angle Attachment (allows the entrance angle to be adjusted from -40 to +40 degrees continuously)
- 922-EPK Extension Pole Kit with remote IrDA trigger



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