P22 Hand-Held Sign Retroreflectivity Assessment Solution

The MUTCD minimum sign retroreflectivity requirements presents a challenge to all agencies. The 922's smart, **field-proven** technology delivers a simple, economic solution for improving and maintaining the safety of your roadways by providing a zero-error means of meeting the minimum retroreflectivity of the MUTCD. Agencies using the 922 can accurately **identify signs** needing replacement, and just as important, identify the signs that do not need replacement.



ULTRA-ACCURATE OPTICS Omni-directional measurement

922

POREFLECTON



PPP, INC. 9957 Moorings Drive, Suite 301, Jacksonville FL, 32257

USER-FRIENDLY OPERATION Full color touchscreen

SPORTAN

INNOVA

Safe Workers to Motorists

- The safe solution with its exclusive annular optics, providing accurate, instant measurement from all directions in each reading
- Reduces a worker's time in the roadway, while offering a zero-error method of meeting the MUTCD retroreflectivity requirements, which ensures adequate night time visibility of signs by motorists

Smart Optics to Build

• The smart solution with its superior light source, annular optics, multi-channel GPS, barcode reader, and commercial-grade rechargeable battery, brought together in the 922's compact, field-proven, 6 lb ergonomic, lightweight casing

Simple Setup to Reporting

- The simple solution, automatically recording 10 precise data points with the simple squeeze of the trigger
- Offers 7 additional user-defined data points, all visible on the user-friendly color touch screen and transferable to Excel, Google and GIS software

COMPREHENSIVE DATA 17 crucial data points

PROVEN DURABILITY 1000s of units in the field







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922 Retroreflectometer Specifications



Geometry			
	Model 922	Model 922D	Model 922EA30
	(ASTM E1709 & E2540) (DIN 67520 & EN 12899-1) (EN ISO 20471 & ANSI-107 for 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°
Receiver angular aperture (annular)	0.1°	0.1°	0.1°
Field of measurement	1-in. (25 mm) diameter spo	t 1-in. (25 mm) diameter spot	1-in. (25 mm) diameter spot

Specifications (applies to all models)

Detector responsivity	Photopic response in accordance with ASTM E1709 and ASTM E2540 paragraph 6.4.2		
Range (cd/lx/m2)	0-2000		
Data memory	> 5,600 measurements		
Computer interface	USB; Bluetooth		
GPS	12-channel WAAS enabled for <3 meter position fix uncertainty		
Barcode reader	Programmable symbologies laser scanner		
Power supply	Removable and rechargeable 12 VDC, 3.3 Ah battery (DeWalt P/N DC9071 or equivalent)		
Charger	100-240 VAC, 50/60Hz (add -1 after model number); 12 VDC cigarette lighter		
	(add -2 after model number):		
Operating temperature	0°C to 50°C (32°F to 122°F)		
Operating hh	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		