

StripeMaster® Touch Pavement Marking Retroreflectometer



Agencies and contractors require a rapid and efficient way to verify the retroreflectivity of pavement markings. The StripeMaster® Touch series is a highly reliable, field-proven tool for safe and consistent measurement values with minimal operator training.

Available in four model configurations, the instrument can simply provide a retroreflectivity value, provide retroreflectivity and color / size information, or all of the above, plus nighttime color and Qd daytime visibility assessment and evaluation.

Through a simple place, shoot, read, and record process, the system provides an all-in-one pavement marking asset management system.

Reliability & Accuracy in a Field-Proven Platform

Safe Workers & Motorists

- 4-position safety swivel handle allows operation from the safest direction
- Reduces a worker's time in-roadway, while offering a zero-error method of determining retroreflectivity values

Simple Setup & Use

- Removable wheels & retractable stabilizer bar for compact storage
- Built-in GPS and printer for immediate on-site records
- Back-office reporting in CSV & Google Earth files via USB port
- Included battery pack, charger & calibration standard

Robust, Reliable and Field-Proven

- Ruggedized light source, & commercial-grade rechargeable battery
- Full color touch screen with weather shield
- Housed in a compact & durable, field-proven casing



Data Parameters	SM1T	SM2T	SM2C	SM2Q
Measures retroreflectivity R_L per ASTM E1710 and EN1436	✓	✓	✓	✓
Measures daylight visibility Q_d per ASTM E2302 and EN1436				✓
Measures retroreflectivity in continuous wetting (rain) per ASTM E2832	✓	✓	✓	✓
Measures retroreflectivity in wet conditions per ASTM E2177	✓	✓	✓	✓
Records GPS coordinates with each measurement utilizing 56-Channel WAAS-, EGNOS-, MSAS- enabled for <2.5 meter position fix uncertainty.	✓	✓	✓	✓
Optional averaging of multiple measurements	✓	✓	✓	✓
Custom file information for storing job name / type / user	✓	✓	✓	✓
Extensive measurement range for accurate low to high precision range	✓	✓	✓	✓
Large memory capacity to accommodate large projects between data downloads	✓	✓	✓	✓
USB computer interface for data transfer and instrument configuration	✓	✓	✓	✓
Data integration software compatible with Excel and Google Maps	✓	✓	✓	✓
Calibration certification	✓	✓	✓	✓
Temperature and humidity recorded with each measurement		✓	✓	✓
User customized data fields – location on road, install date, material type, etc.		✓	✓	✓
User customized settings for pass / fail criteria		✓	✓	✓
Nighttime retroreflected CIE chromaticity per ASTM D6628 and EN1436			✓	✓

Design Parameters	SM1T	SM2T	SM2C	SM2Q
Built-in printer for on-site paper records as required	✓	✓	✓	✓
4-position swivel handle for operation from any direction	✓	✓	✓	✓
Retractable magnetic stabilizer bar for easy storage	✓	✓	✓	✓
Quick change battery charger	✓	✓	✓	✓
Color touch screen interface	✓	✓	✓	✓
Certified calibration block for easy and fast field calibration	✓	✓	✓	✓
Durable carrying case for storage and transport	✓	✓	✓	✓
Accurately measures all industry standard colors	✓	✓	✓	✓
Bluetooth interface for wireless operation	✓	✓	✓	✓
12-volt rechargeable, 3.3 Ah industry-standard battery	✓	✓	✓	✓
Spare 12-volt rechargeable, 3.3 Ah industry-standard battery pack		✓	✓	✓

General Specifications	
Detector Responsivity	Photopic response in accordance with ASTM E1710 paragraph 6.3.2
R_L Range (mcd/m ² /lx)	0 to 3,500
Q_d Range (mcd/m ² /lx)	0 to 318
Entrance angle	88.76° per ASTM E1710
Illumination angle	1.24° per EN1436
Observation angle	1.05° per ASTM E1710
Observation angle	2.29° per EN1436
Illumination angle Q_d	Diffuse
Profiled marking measurement	Up to 0.59-in (15 mm)
Charger Options	100-240 VAC, 50-60 Hz mains wall charger; 12 VDC cigarette lighter
Data Memory	10,000 measurements
Computer Interface	USB & Bluetooth
Operating Temperature / humidity	0° to 50° C (32° to 122° F) / 0 to 95% non-condensing
Operating Humidity	0 to 95% non-condensing
Dimensions	37-in (93 cm) L x 10.5-in (27 cm) W x 4.4-in (11 cm) H including battery
Weight	21 lbs (9.5 kg) with battery