

Laserlux® G7 Vehicle Mounted Pavement Retroreflectometer



Agencies continue to recognize the important correlation between pavement markings' visibility, retroreflectivity and roadway safety. These agencies are embarking on the challenge of assessing and managing the pavement markings of their entire roadway system.

The Laserlux® G7 is the safe, smart and simple solution to meet this challenge. The Laserlux G7 provides continuous pavement marking assessment and evaluation within the flow of traffic. It is the only commercially available instrument that does not require a dedicated vehicle or vehicle modifications to operate.

Versatility in a Field-Proven Platform

Safe Workers & Motorists

- No static work zones or feet on the street
- Daylight or nighttime measurement
- Continuous measurement at highway speeds

The Latest in Laser & Optics Technology

- Solid-state lasers scan > 400 times per second
- Retroreflectivity, contrast, line width, location, RPM count, and much more
- Auto-positioning system for continuous measurement and geometry management

Simple Setup to Reporting

- Operates with virtually any handheld device or computer – no software or apps to install
- Adapts to nearly any vehicle in minutes
- Easy data storage and transfer via USB flash drive



Laserlux® G7 Retroreflectometer



SQUID-MOUNT™

Securely attaches to virtually any vehicle



Wi-Fi OPERATION

From any handheld device or computer



NIGHTTIME COLOR ASSESSMENT

Optional ability to assess night-time color



PROVEN LASER-DIODE SYSTEM

Scans pavement more than 400 times per second

	Retroreflectivity	Width	Contrast	RPM	Infrared	Color
LLG7	✓	✓	✓	✓		
LLG7-Vision	✓	✓	✓	✓	✓	
LLG7-Color	✓	✓	✓	✓		✓

Specifications		
Geometry	CEN 30-meter	15-meter
Entrance Angle	88.76° ± 0.01° (ASTM E1710)	86.50° ± 0.01°
Illumination Angle	1.24° ± 0.01° (EN 1436)	N/A
Observation Angle	1.05° ± 0.01° (ASTM E1710)	1.50° ± 0.01°
Observation Angle	2.29° ± 0.01° (EN 1436)	N/A
Receiver Aperture	0.24°	0.33°
Measurement Distance	6 meters (19 feet, 8.22 inches)	4.2 meters (13 feet, 9.35 inches)
Measurement Width	1 meter (39.4 inches)	
Longitudinal resolution of measurement	> 7.6-cm. (3-in.) at 110 km/h (68 mph) > 3.5-cm. (1.4-in.) at 50 km/h (31 mph)	
Operating Temp	-7° to 50°C (20° to 122°F)	
Operating Humidity	5% to 95% RH non-condensing	
Size	10" X 10.5" X 20" (255mm X 265mm X 505mm)	
Weight	LLG7: <11 kg (23 lbs) LLG7-Vision: <12.3 kg (27 lbs) LLG7-Color: <14.1 kg (31 lbs)	
GPS	72-channel WAAS-enabled w/ dead-reckoning Position accuracy < 2 m CEP	
Wireless control via multiple platforms	iPad, Android, Windows, etc.	
Vehicle Platform	Mounts to almost any vehicle using removable vacuum mounting bracket	

Performance

- Solid-state laser based – maintenance free
- Counts and inventories reflective pavement markers
- Automatically provides line contrast
- Measures double lines individually
- Measures the nighttime perceived line width
- Use with any wireless device - phone, computer, tablet
- No software or apps to install
- Auto-positioning system for continuous measurement / geometry management
- High definition video recording
- Squid-Mount™ attachment to virtually any vehicle
- Provides continuous retroreflectivity measurement at highway speeds
- Onboard data storage with removable USB drive
- Operation via standard 12-volt vehicle power outlet
- Fast, easy, accurate calibration
- No need to measure distances or find level ground

Complies with ASTM E1710 and EN1436 - 30 METER GEOMETRY

15 METER GEOMETRY available as an option

