LaserLux G7

Mobile Pavement Marking Retroreflectivity Assessment Solution

Government agencies continue to recognize the important correlation between pavement markings' 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.

LLG7
Mobile Assessment of Retroreflectivity

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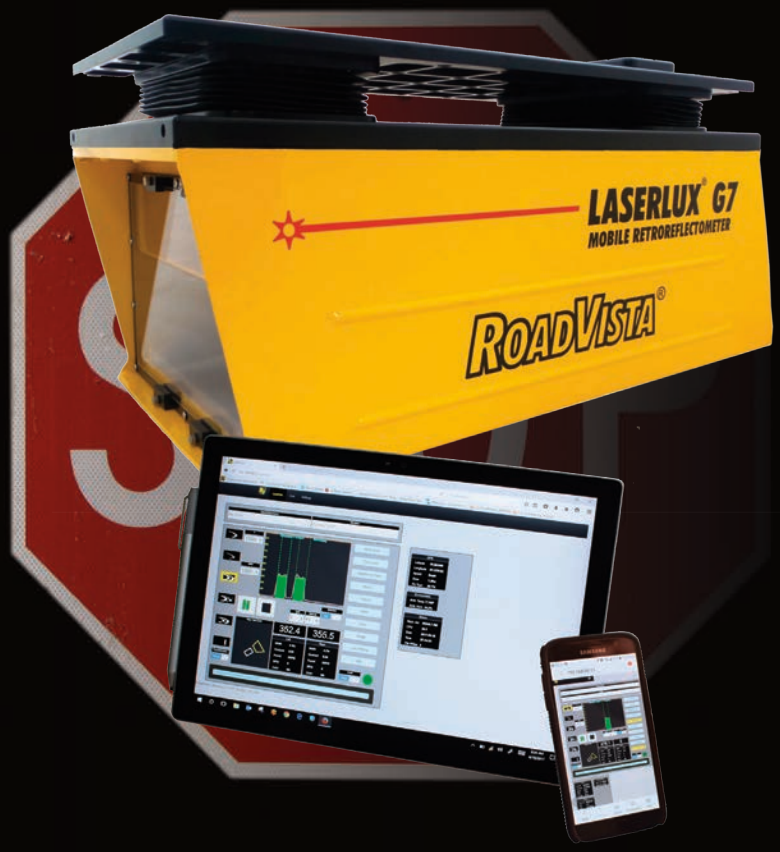
LLG7 - Vision
Mobile Assessment of Retroreflectivity/Infrared

/

LLG7 - Color
Mobile Assessment of Retroreflectivity/Color



Safe Workers to Motorists

- No static work zones that create accident-prone traffic for motorists and allows the operator to be more visible to motorists
- No feet on the street, eliminating the need for workers being in harm's way
- Continuous assessment and measurement, ensuring no line is left behind

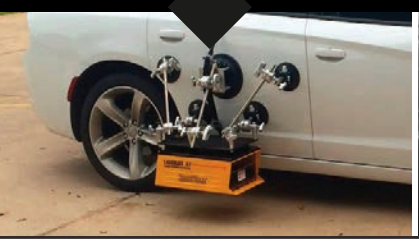
Smart Optics to Build

- Measure at any time – day or night
- Proven laser-based optics that scan the markings more than 400 times per second
- Comprehensive data including retroreflectivity, contrast, line width, location, RPM count, and much more
- Auto-positioning system for continuous measurement and geometry management

Simple Setup to Reporting

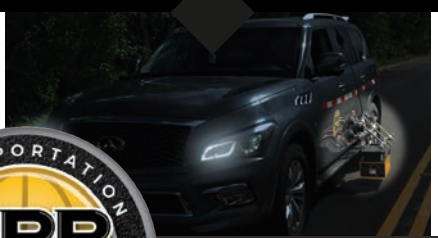
- Easy operation from virtually any handheld device or computer
- Adapts to nearly any vehicle in minutes
- Easy data storage and transfer through USB flash drive

SQUID-MOUNT ™
Securely attaches to virtually any vehicle



Wi-Fi WIRELESS OPERATION
From any handheld device or computer

NIGHTTIME COLOR MANAGEMENT
Optional ability to assess nighttime color



PROVEN LASER-BASED OPTICS
Scans pavement markings more than 400 times per second

PPP, Inc.
9556 Historic Kings Rd. S. Suite #401
Jacksonville, FL 32257

888.717.7771
WWW.PPPCATALOG.COM

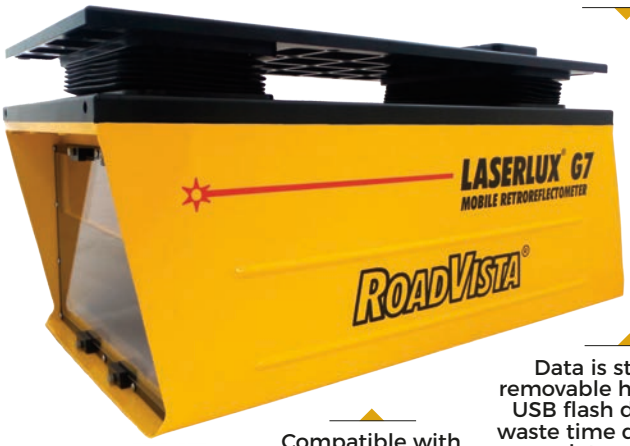
LASERLUX G7 Specifications

A Gamma Scientific company

Measures and records the width of the line

Counts and records reflective pavement markers (RPM's) presence

Secure Wi-Fi operation and on-board data storage allows for near wireless function aside from a single 12-volt power cable outlet to the vehicle



Data is stored in a removable high capacity USB flash drive - don't waste time downloading your data at the end of the day

Compatible with Android, iOS, and Windows tablets and computers

Exclusive laser system records 400 measurements per second ensuring continuous coverage of the lines

Made & Serviced in the U.S.A.!

Performance

- Counts and inventories Reflective Pavement Marker (RPM's) presence
- Automatically gives contrast of the line
- Operation of the unit is Wi-Fi wireless from any device - phone, computer, tablet, etc.
- Proven laser-based optics that scan pavement markings up more than 400 times per second
- Auto-positioning system for continuous measurement and geometry management
- Squid-Mount ™ securely attaches to virtually any vehicle
- Provides with continuous retroreflectivity measurements at speeds above 60 mph
- Secure Wi-Fi operation and onboard data storage allows for near wireless function aside from a single 12-volt power cable outlet to the vehicle
- Data is stored in a removable USB flash drive – don't waste time downloading your data at the end of the day. Simply take the flash drive with you and plug it into your laptop.
- Fast, easy, accurate calibration – completely self-contained with no need to measure distances or find level ground.
- Measures and records the width of the stripe

Meets ASTM E1710, EN 1436, and CEN 30 METER

Optional Configuration

- **Nighttime Color Measurement** The first-ever mobile retroreflectometer with the capability to determine if your white and yellow stripes fall within the designated ASTM or CEN night time color boxes
- **Vision System** – Simultaneously evaluates pavement markings for both human and machine vision. Deploys two lasers – one for measurement of retroreflectivity for human vision and one for measurement of Infrared for machine vision

Standard Accessories

- Microsoft Surface Pro computer
- Browser-based operation panel
- Operating system
- Power cabling
- Calibration standard
- Calibration Certificate
- Foam-lined protective cases

	Retroreflectivity	Width	Contrast	RPM	Infrared	Color	Laser Count
LLG7	✔	✔	✔	✔			1
LLG7 Vision	✔	✔	✔	✔	✔		2
LLG7 Color	✔	✔	✔	✔		✔	3

The Laserlux G7 Measures the Coefficient of Retroreflection of pavement markings in the CEN 30-meter and CEN-15-meter geometries.

Geometry	CEN 30-meter	CEN 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	Better than 7.6-cm. (3-in.) resolution at 110 km/h (68 mph) Better than 3.5-cm. (1.4-in.) resolution 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 with dead-reckoning. Position accuracy <2m CEP	
Wireless control via any PC tablet, or smart phone	iPad, Android, Windows, etc.	
Vehicle Platform	Mounts to almost any vehicle using removable vacuum mounting bracket	
Additional Readings	Detects and counts reflective pavement markers (cat eyes, road studs, RPM's) Measures double lines individually with separate RL values for each line Measures the nighttime perceived pavement marking line width Measures the contrast between the pavement and the line High definition video recording	