

Laserlux G7 Vehicle Mounted Pavement Marking Assessment Solution



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.

Three versions from which to choose:

LLG7: Mobile Assessment of Retroreflectivity

LLG7-Vision: Mobile Assessment of Visible and Infrared for Machine Vision

LLG7-Color: Mobile Assessment of Retroreflectivity and Color

Versatility in a Proven Platform

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
- Measures day or night
- Continuous assessment and measurement, ensuring no line is left behind

Smart Optics to Build

- Proven laser-diode 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
- Options for color and machine vision assessment
- Auto-positioning system for continuous measurement and geometry management

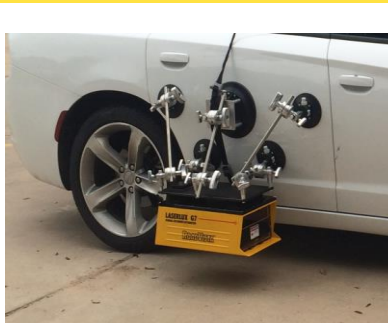
Simple Setup to Reporting

- Easy operation from 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

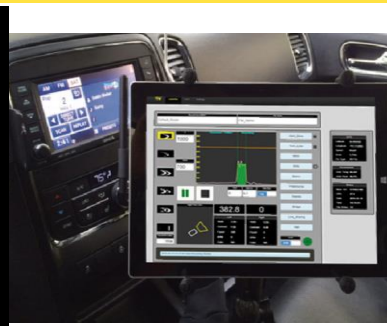


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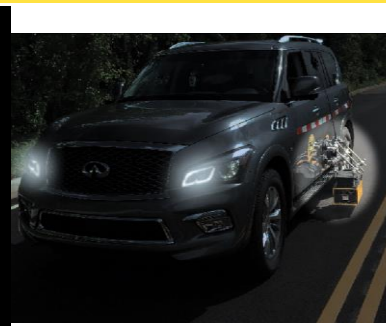
Laserlux G7 Mobile Retroreflectometer



SQUID-MOUNT™
Securely attaches to virtually any vehicle



WIRELESS 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 | 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 | |

Performance

- Laser-diode based system – virtually maintenance free
- Counts and inventories reflective pavement markers (RPMs, cat eyes, road studs)
- Automatically gives contrast of the line
- Measures double lines individually with separate R_L values for each line
- Measures the contrast between the pavement and the line
- Measures the nighttime perceived pavement marking line width
- Operation of the unit is Wi-Fi wireless from any device - phone, computer, tablet, etc. No software or apps to install
- Proven laser-based optics that scans pavement markings more than 400 times per second
- Auto-positioning system for continuous measurement and geometry management
- High definition video recording
- Squid-Mount™ securely attaches to virtually any vehicle
- Provides continuous retroreflectivity measurements at all speeds up to the posted speed limit
- 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 and EN1436 - 30 METER GEOMETRY
15 METER GEOMETRY available as an option**