

The reference instrument for qualification and asset management of pavement markings

LTL-X

Retroreflectometer



Government agencies recognize the challenges in trying to objectively evaluate pavement markings for nighttime visibility and color. In addition, many agencies have set numerical standards and implemented performance based safety management programs to help reduce accidents, save money, and provide valuable data for asset utilization. Likewise, in-service performance and economy can be improved when maintenance decisions are based on a qualitative measurement program and not on fixed replacement intervals. The DELTA LTL-X retroreflectometer is the recognized industry standard and the first choice for governmental agencies and testing facilities for the fast, accurate and reliable measurement of the nighttime visibility of pavement markings.

Following years of extensive research, the FHWA is proposing recommended minimum levels for pavement marking retroreflectivity to meet driver's nighttime visibility needs. In addition, the FHWA is proposing methods for maintaining minimum levels of retroreflectivity. The DELTA LTL-X is an important component to properly measure and verify data when implementing any of the proposed maintenance methods. DELTA instruments are repeatable, reproducible and traceable to a NIST national standard through an ISO 17025-certified testing and calibration laboratory.

As the exclusive distributor of DELTA LTL-X pavement marking retroreflectometers in the United States, Canada and Mexico, Flint Trading is helping customers objectively monitor the optical performance of today's traffic control pavement markings. A certificate of conformance and traceability is supplied with each DELTA instrument.

From its sturdy, ergonomic design to its functional superiority, the DELTA LTL-X is the most user-friendly instrument on the road.

LTL-X Retroreflectometer

The DELTA LTL-X is a handheld instrument for quantifying nighttime visibility of pavement markings. Based on 30-meter geometry, the LTL-X provides traceable, accurate, and repeatable pavement marking retroreflectivity measurements. The LTL-X conforms to the ASTM E 1710 instrument standard.

Key Features

- Portable self-contained instrument with retractable handle
- Integrated graphic display with acoustic signals to guide user
- Sturdy, ergonomic design for single hand operation
- Fast measurement in less than half a second
- Easy calibration procedure
- Instrument calibration standards traceable and accredited to NIST
- Measure wet and dry surfaces
- Built-in WAAS GPS and printer
- Error detection warning
- Multiple languages
- Auto color correction without recalibrating
- Measurement averaging (fixed or moving)
- Interactive ID labeling: series, user and marking type
- Measure profiled markings (up to 15 mm in height)
- Measure wet markings in accordance with ASTM E 2176, E 2177, and the currently proposed replacement standard for E 2176
- RSC2 PC Software interface allows data to be downloaded to inventory program
- Data storage (collect up to 1,500 measurements on full battery)
- User-replaceable NiMH battery; 1-hour charging time
- Removable wheels

Annual Maintenance Inspection Program

Through Flint's Annual Maintenance Inspection Program, factory trained and authorized personnel provide a thorough annual maintenance inspection to keep each DELTA instrument operating at optimum performance. Flint technicians thoroughly check, adjust and/or repair any aspect of the instrument which fails to meet the high quality standards set by DELTA during the original manufacturing process.



The operation of the LTL-X is fully menu driven from the easy-to-read graphic screen that displays readings, preset icons and user IDs.



A quick press of the green button and measurements are taken in less than half a second... a safety feature that operators value on busy roadways.

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