Leetron Advanced Mobile Retroreflectivity Measurement of Pavement Markings

Highways for LIFE Technology Partnerships 2013 Award $210,825

U.S. Department of Transportation
Federal Highway Administration
HIGHWAYS FOR LIFE
Accelerating Innovation for the American Driving Experience.

Need for Innovation

About ½ of all traffic fatalities occur at night even though only about ¼ of travel occurs after dark. Retroreflective pavement markings help drivers see the road ahead at night and must be maintained to be effective. Transportation agencies need a safe, reliable and effcient way of collecting retroreflectivity data for their pavement markings.

Project Team

Leetron Vision

Connecticut Department of Transportation

Project Status

The phase I final report is expected in April 2016.

Contact Information

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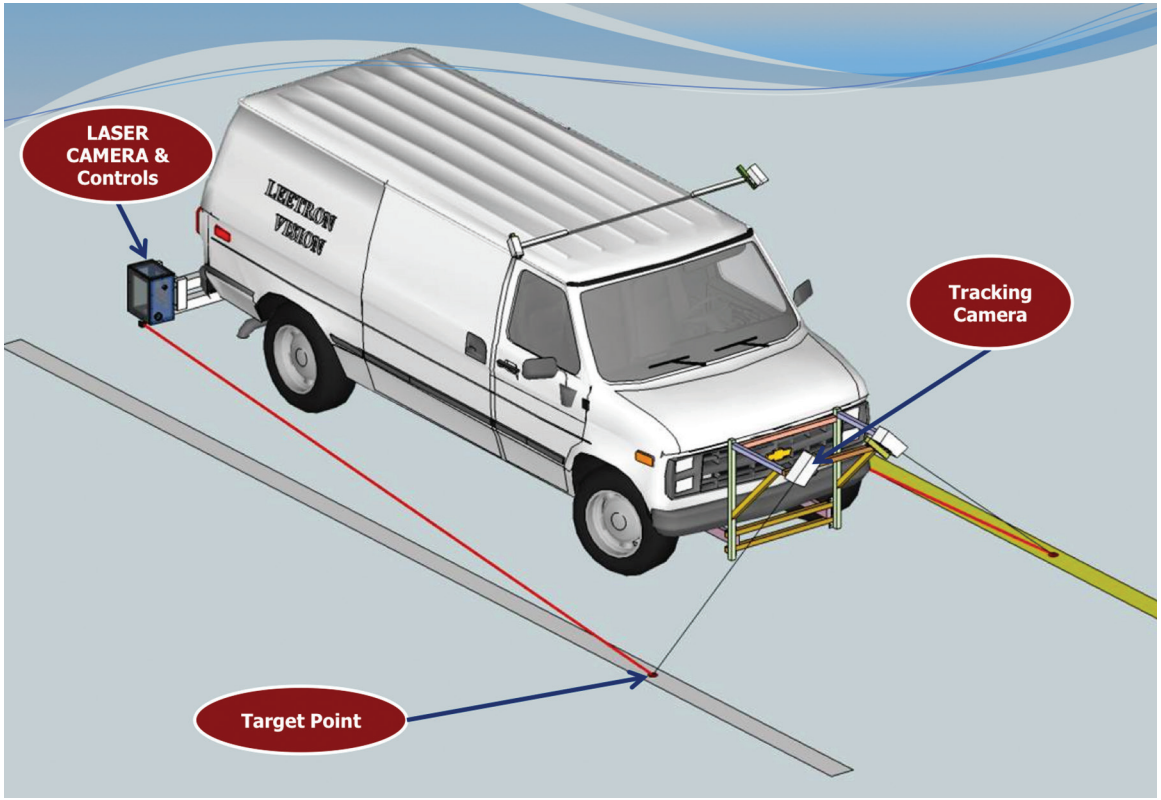
Project Overview

Leetron breaks away from the traditional design to develop a real time tracking system to counter motions and environmental effects on mobile data collection. Measurements are taken at an extremely fast rate of 4500 times a second. With stable electronics and optical components combined with an environment controls enclosure, the system is highly stable and can be operated by one person. The measurement capability is doubled by having the two systems measuring both, the driver and passenger side markings, simultaneously.



The Leetron system provides a faster, more efficient quantitative evaluation of the retroreflectivity of markings.