

# Leddar™ side-tec Traffic Sensor



THE SMART TRAFFIC DETECTION SOLUTION FOR SUSTAINABLE MOBILITY

 **Leddar™**  
side-tec

Introducing the Leddar™ side-tec for traffic enforcement, toll application and highway monitoring systems.

Based on the principle of the time-of-flight of light, the Leddar™ side-tec creates a virtual 3D curtain which provides very accurate 3D information to precisely detect vehicles of all dimensions.

In addition, since the information is compiled thousands of times per second, the Leddar™ side-tec system provides very robust detection in adverse weather and lighting conditions.

Peace of mind and ease of use, the Leddar™ side-tec uses industry-standard Power over Ethernet (PoE) technology, the same cable provides both power and data communication to the Leddar™ side-tec traffic sensor, eliminating expensive coaxial and power cable installation.

## Installation and Configuration

The Leddar™ side-tec is optimized for side-fire application. The Leddar™ side-tec detects the passage of vehicles of any size on multiple lanes. The onboard image sensor provides rapid alignment and configuration.

## Benefits

- Non-intrusive vehicle (all types) detection
- Rapid alignment and configuration using the Leddar™ side-tec Configuration software
- IP addressable
- No moving parts
- PoE: Power over Ethernet (only 1 cable Cat 5e to run);
- Accurate performance in all weather conditions (fog, rain, snow, night & day);

## Applications

The side-tec detects the passage of vehicle in a side fire mode with very high accuracy;

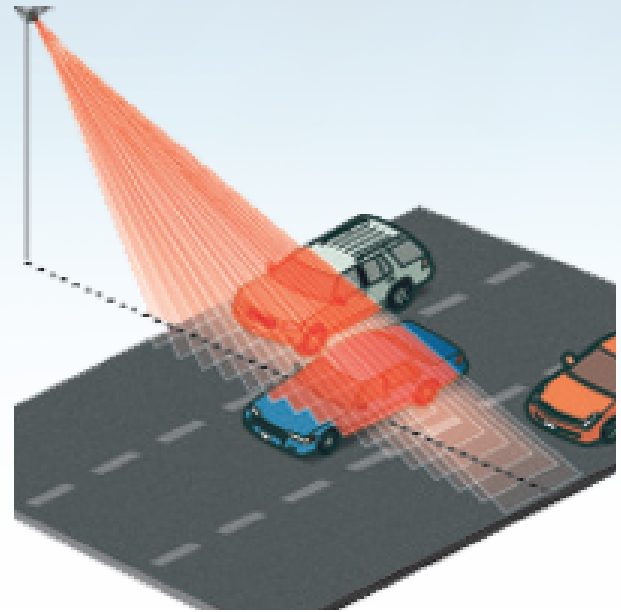
- Detection of vehicles and motorcycles up to 250 Km/h with accuracy > 99%
- Precision of target vehicle detection within 50cm
- Vehicle profiling (tolling, classification)



 **LeddarTech**  
 **Smarter Sensing,  
Enhanced Mobility**

## Technical specifications

Refresh rate	196 Hz
Product model	Leddar™ side-tec   (PN 75A0012-2)
Detection engine	LED (light emitting diode)
Power	48 VDC - IEEE 802.3at PoE (Power over Ethernet)
Dimensions	8.9 x 10.2 x 15.2 in (226 x 259 x 386 mm)
Weight	6.6 lb (3 kg)
Enclosure	Rugged design for full protection against dust and elements
Temperature	- 29° F to + 140° F (- 34° C to + 60° C)
Ingress protection	IP67
Mounting	Compatible with standard traffic hardware
Regulatory	FCC Part 15, Subpart B, Class A ICES-003, Class A; CE
Connection (up to 100m 0 300')	Ethernet Cat 5e RJ45 Plug Kit: • Shielded Cat 5e RJ45 plug • Bayonet-locking coupling/protective connector
Performance	Two-lane detection. Detection range: up to 80 ft (25 m) Accurate detection in all weather conditions, any time of day
Field of view	34° standard



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