

LeddarTech[®]

SOLVING CRITICAL SENSING, FUSION AND PERCEPTION CHALLENGES



Solid-State LiDAR Product Line Overview

Discover LeddarTech's specialized solid-state LiDAR solutions for ITS, mobility and Industrial applications.

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Mobility Solid-State LiDAR Sensors



Robotaxi



Commercial vehicles



Autonomous shuttles



Off-road vehicles



ITS



NEW

Leddar™ Sight Robust, Reliable 16-Segment 2D LiDAR Sensor

Robust, cost-effective 2D solid-state LiDAR housed in a weatherproof enclosure that uses flash illumination to deliver rapid, continuous and accurate detection and range—including lateral discrimination—in the entire wide beam, without any moving parts.

- 400,000 hours MTBF, up to 26 x longer than mechanical LiDARs
- Meets stringent shock and vibration standards
- IP69 rated, impact-resistant enclosure

Leddar™ Pixell The Most Robust 3D LiDAR for Mobility Applications

Enables a comprehensive detection “cocoon” providing dependable object and vulnerable road user detection as well as exceptional robustness and durability. Designed from the ground up for operation in the harshest mobility environments, Leddar Pixell complies with demanding industry standards for resistance to shock, vibration and dust, delivering superior lifespan and reliability.

- Fanless IP67 enclosure
- Best-in-class shock and vibration resistance
- Wide operating temperature range



Leddar™ Vu8 8-Segment 2D LiDAR Sensor Module

The compact, affordable, versatile 2D solid-state LiDAR sensor module that delivers exceptional detection and ranging performance in a small, robust package. Leddar Vu8 modules provide the ability to detect and track multiple objects simultaneously over 8 distinct segments.

- Detection range up to 185 m
- Compact and lightweight
- Various beam options for optimized field of view Leddar

Leddar™ M16 16-Segment 2D LiDAR Sensor Modules

Field-proven solid-state LiDAR modules that combine wide-beam flash illumination with 16 independent detection segments to simultaneously deliver rapid, continuous and precise detection and ranging for multiple objects along with excellent lateral discrimination.

- Detection range up to 165 m
- Proven reliability for indoor and outdoor operation
- Various beam options for optimized field of view



Specialty LiDAR Sensors



Leddar™ d-tec Above-Ground Stop-Bar Detection System

The Leddar d-tec is a LiDAR-based stop-bar detection system offering advanced sensing capabilities for traffic light management, representing the perfect alternative to legacy induction loop detectors. The Leddar d-tec provides accurate and reliable detection of all types of traffic (vehicles, bicycles, motorcycles, pedestrians) in all weather and lighting conditions.



ITS



Leddar™ T16 Solid-State LiDAR Traffic Sensor

Packaged in a weatherproof housing, the powerful Leddar T16 Traffic Sensor is specifically designed for traffic management systems—from city to highway applications. It offers cost-efficient and highly accurate vehicle detection for various intelligent transportation system (ITS) applications, such as free-flow electronic tolling, traffic monitoring and law enforcement.



ITS



LeddarOne™ Single-Segment LiDAR Sensor Module

The LeddarOne sensor module is dedicated to single-point detection and precise distance measurements. This low-cost module integrates patented Leddar digital signal processing technology for reliable performance at distance ranges up to 40 m.



Drones



Leddar™ IS16 Industrial Solid-State LiDAR Sensor

Specifically designed for the industrial market, the Leddar IS16 is a robust, multi-segment flash LiDAR sensor that delivers consistent performance and reliability in the harshest conditions. With its weather-resistant enclosure, this solid-state LiDAR is perfectly suited to both outdoor and indoor applications.



Industrial
automation

Specialized Expertise, Global Presence.



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