

Global Autonomous Driving Solid-State LiDAR Sensor Market Growth 2026-2032

<https://marketpublishers.com/r/GF503DC44EEBEN.html>

Date: July 2026

Pages: 139

Price: US\$ 3,660.00 (Single User License)

ID: GF503DC44EEBEN

Abstracts

The global Autonomous Driving Solid-State LiDAR Sensor market size is predicted to grow from US\$ 832 million in 2025 to US\$ 2087 million in 2032; it is expected to grow at a CAGR of 11.0% from 2026 to 2032.

Autonomous driving solid-state LiDAR sensors are three-dimensional environmental perception hardware designed for intelligent vehicle systems. Their core purpose is to provide vehicles with stable spatial distance, object contour, relative position, and partial motion-state information in complex road conditions, low-light environments, backlighting, long-range obstacle detection, close-range blind spots, and high-speed driving scenarios. Through laser emission, echo reception, scanning or area-array imaging, signal processing, and point-cloud output, these products convert road vehicles, pedestrians, cyclists, curbs, traffic cones, irregular obstacles, and other targets into three-dimensional data that can be used by perception algorithms. Compared with traditional mechanical rotating LiDAR, solid-state or hybrid solid-state solutions place greater emphasis on automotive-grade reliability, miniaturization, low power consumption, lower cost, easier integration, and scalable manufacturing. Common technology routes include MEMS scanning, flash imaging, spectrum scanning, frequency-modulated continuous wave sensing, and hybrid solid-state scanning. Typical customers include automakers, autonomous driving system suppliers, Tier 1 component suppliers, robotaxi operators, autonomous truck companies, and low-speed unmanned vehicle manufacturers.

Autonomous driving solid-state LiDAR sensors are at a critical stage of moving from technology validation to large-scale vehicle deployment. Their industrial significance is no longer limited to improving the ranging capability of a single sensor, but lies in becoming an important foundation for safety redundancy and three-dimensional spatial

understanding in intelligent driving systems. As advanced driver assistance expands from highway scenarios to urban roads, parking scenarios, and complex mixed-traffic environments, vehicles need to identify low-reflectivity obstacles in advance at long distances while also eliminating side, turning, front, and rear blind spots at close range. By reducing traditional mechanical rotating structures, solid-state and hybrid solid-state solutions improve the feasibility of miniaturization, vibration resistance, concealed installation, and scalable manufacturing. This enables LiDAR to evolve from a roof-mounted device used on early test vehicles into an automotive-grade component that can be integrated into windshields, bumpers, grilles, headlights, and side-wing positions. Industry competition is therefore shifting from single-point performance competition to comprehensive engineering capability competition. Core evaluation criteria include detection range, field of view, point-cloud density, power consumption, size, cost, automotive-grade reliability, algorithm interfaces, and compatibility with vehicle styling.

From the perspective of technology routes, the industry has not formed a single dominant route, but instead shows a pattern in which multiple architectures coexist according to application scenarios. Forward long-range detection places greater emphasis on long distance, angular resolution, resistance to strong light, and stability in high-speed scenarios, making it suitable for serving as the main LiDAR sensor. Short-range blind-spot products place greater emphasis on a wide field of view, short-distance recognition, low cost, and multi-point deployment capability, making them suitable for covering both sides of the vehicle, the front and rear corners, and parking scenarios. Flash imaging solutions emphasize no moving parts and near-field response. MEMS scanning and hybrid solid-state routes emphasize the balance required for mass production. Spectrum scanning and frequency-modulated continuous wave routes seek to build differentiation in interference resistance, instant velocity sensing, and long-term performance upgrades. As vehicle electronic and electrical architectures become more centralized, the sensor itself is also evolving from hardware that simply outputs point clouds into a software-hardware collaborative node. Some products are beginning to reduce system integration difficulty through embedded perception software, region-of-interest focusing, dynamic fields of view, and data preprocessing. Future competitive advantage will come from chip-level integration, modularization, automotive-grade manufacturing, software-defined perception, and coordination with vehicle platforms, rather than leadership in a single indicator.

From the perspective of regional and supply-chain structure, autonomous driving solid-state LiDAR has already formed a clear global division of labor. Supported by new energy vehicle penetration, upgrades in advanced driver-assistance configurations, and

rapid vehicle model iteration, the Chinese market is driving front-fit LiDAR from high-end models toward a broader range of vehicles. This has also enabled domestic suppliers to improve rapidly in mass production, cost control, engineering delivery, and product iteration speed. North American and Israeli companies compete more around high-performance architectures, autonomous driving platforms, commercial vehicle scenarios, and emerging sensing technologies. European, Japanese, and South Korean companies rely more on automotive component systems, automotive-grade quality management, and relationships with automakers to build advantages in system integration and reliable delivery. In the long term, LiDAR will not independently determine the commercialization of autonomous driving, but it will work together with cameras, millimeter-wave radar, high-definition maps, computing platforms, and perception algorithms to form a multi-sensor fusion system. As long as advanced driver assistance continues to pursue higher safety margins, stronger night-driving capability, and more reliable redundant perception, solid-state LiDAR will continue to have strong potential for growth in vehicle deployment and product upgrades.

LP Information, Inc. (LPI) ' newest research report, the "Autonomous Driving Solid-State LiDAR Sensor Industry Forecast" looks at past sales and reviews total world Autonomous Driving Solid-State LiDAR Sensor sales in 2025, providing a comprehensive analysis by region and market sector of projected Autonomous Driving Solid-State LiDAR Sensor sales for 2026 through 2032. With Autonomous Driving Solid-State LiDAR Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Autonomous Driving Solid-State LiDAR Sensor industry.

This Insight Report provides a comprehensive analysis of the global Autonomous Driving Solid-State LiDAR Sensor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Autonomous Driving Solid-State LiDAR Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Autonomous Driving Solid-State LiDAR Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Autonomous Driving Solid-State LiDAR Sensor and breaks down the forecast by Output Form, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast

offers a highly nuanced view of the current state and future trajectory in the global Autonomous Driving Solid-State LiDAR Sensor.

This report presents a comprehensive overview, market shares, and growth opportunities of Autonomous Driving Solid-State LiDAR Sensor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Output Form:

3D Point Cloud

4D Velocity Sensing

Fusion Perception

Segmentation by Output Form:

Narrow-FOV Forward

Wide-FOV Forward

Ultra-Wide-FOV Blind-Spot

Omnidirectional Surround-View

Segmentation by Installation Position:

Near-Infrared 905 nm

Near-Infrared 940 nm

Short-Wave Infrared 1550 nm

Segmentation by Application:

Passenger Car ADAS

Robotaxi

Commercial Vehicle Autonomous Driving

Low-Speed Unmanned Vehicle

Vehicle Blind-Spot Coverage

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Luminar Technologies

Innoviz Technologies

Aeva

Baraja

Ouster

AEye

MicroVision

Continental

XenomatiX

Blickfeld

KOITO Manufacturing

Hesai Technology

RoboSense

Seyond

Livox

SOSLAB

HL Klemove

Key Questions Addressed in this Report

What is the 10-year outlook for the global Autonomous Driving Solid-State LiDAR Sensor market?

What factors are driving Autonomous Driving Solid-State LiDAR Sensor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Autonomous Driving Solid-State LiDAR Sensor market opportunities vary by end market size?

How does Autonomous Driving Solid-State LiDAR Sensor break out by Output Form, by Application?

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