

Global LiDAR for Autonomous Driving Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global LiDAR for Autonomous Driving market size is expected to reach \$ 3160 million by 2032, rising at a market growth of 14.6% CAGR during the forecast period (2026-2032).

LiDAR for Autonomous Driving acts as a high-precision three-dimensional mapping system that utilizes laser pulses to construct a dense point cloud representation of the vehicle's environment, enabling exact object localization and shape recognition. This technology delivers superior range accuracy and resolution compared to other sensing modalities, which is critical for the path planning algorithms of high-level automated driving systems to navigate complex and unstructured scenarios safely. By generating high-fidelity spatial data, it allows the system to identify and classify static obstacles and dynamic traffic participants with minimal latency, ensuring rigorous safety standards are met. Consequently, this sensor forms an indispensable component of the perception architecture, providing the necessary redundancy and reliability for vehicles to operate without human intervention. In 2025, global LiDAR for Autonomous Driving production reached approximately 3.94 million units with an average global market price of around US\$300 per unit.

The autonomous driving LiDAR industry is currently in a critical phase of technological convergence and large-scale cost reduction, with future trends focusing on chip-level integration and the enhancement of mass production capabilities compliant with automotive standards. According to the 'Intelligent Vehicle Innovation Development Strategy' issued by the National Development and Reform Commission and other departments, policy explicitly supports the development of high-precision on-board sensors, promoting the independent R&D and industrial application of core components such as LiDAR. From the perspective of corporate finance and revenue, leading

manufacturers like Hesai Technology and RoboSense emphasize in their annual reports and official news that they are significantly reducing product costs through self-developed proprietary chips and highly integrated transceiver modules, thereby improving gross margin levels and market delivery scale. Major industry trends indicate that mechanical spinning radars are gradually transitioning toward solid-state or semi-solid-state architectures with greater stability and lower costs to meet the stringent reliability requirements of front-loaded mass production vehicles. Meanwhile, major LiDAR companies are actively expanding into overseas markets and deepening their strategic partnerships with OEMs, aiming to achieve long-term stable revenue growth and profit structure optimization through the large-scale implementation of designated projects. The upstream and downstream sectors of the industry are deploying layouts around the deep integration of core optoelectronic devices and algorithm processing capabilities to address the urgent demand for cost-effective perception solutions in the commercialization process of autonomous driving.

This report studies the global LiDAR for Autonomous Driving production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for LiDAR for Autonomous Driving and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of LiDAR for Autonomous Driving that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global LiDAR for Autonomous Driving total production and demand, 2021-2032, (Units)

Global LiDAR for Autonomous Driving total production value, 2021-2032, (USD Million)

Global LiDAR for Autonomous Driving production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global LiDAR for Autonomous Driving consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: LiDAR for Autonomous Driving domestic production, consumption, key domestic manufacturers and share

Global LiDAR for Autonomous Driving production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global LiDAR for Autonomous Driving production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global LiDAR for Autonomous Driving production by Application, production, value,

CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global LiDAR for Autonomous Driving market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Continental AG, Valeo, Ouster, Luminar Technologies, Aeva Technologies, Innoviz Technologies, Koito, MicroVision, Shanghai Hesai Technology, Shenzhen RoboSense, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World LiDAR for Autonomous Driving market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global LiDAR for Autonomous Driving Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global LiDAR for Autonomous Driving Market, Segmentation by Type:

Solid State LiDAR

Mechanical LiDAR

Global LiDAR for Autonomous Driving Market, Segmentation by Detection Range:

<50m

50-150m

150-300m

>300m

Global LiDAR for Autonomous Driving Market, Segmentation by Channels:

Single-line LiDAR

Multi-channel LiDAR

Global LiDAR for Autonomous Driving Market, Segmentation by Application:

L1/L2+ Driving Automation

L3 Driving Automation

Other

Companies Profiled:

Continental AG

Valeo

Ouster

Luminar Technologies

Aeva Technologies

Innoviz Technologies

Koito

MicroVision

Shanghai Hesai Technology

Shenzhen RoboSense

Shenzhen LeiShen Intelligent

Innovusion

Beijing Tanway

VanJee Technology

Beijing LiangDao Automotive Technology

Key Questions Answered:

1. How big is the global LiDAR for Autonomous Driving market?
2. What is the demand of the global LiDAR for Autonomous Driving market?
3. What is the year over year growth of the global LiDAR for Autonomous Driving market?
4. What is the production and production value of the global LiDAR for Autonomous Driving market?
5. Who are the key producers in the global LiDAR for Autonomous Driving market?

6. What are the growth factors driving the market demand?

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