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Global Automotive Lidar Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive Lidar Sensor market size is expected to reach $ 15570 million by 2032, rising at a market growth of 45.5% CAGR during the forecast period (2026-2032).

LiDAR is an active measuring device that measures the precise distance between an object and a sensor by emitting lasers. It uses a transceiver array consisting of lasers and detectors, combined with beam scanning, to obtain the precise distance and contour information of surrounding objects with the help of laser dot matrix, thus achieving real-time perception of the surrounding environment and obstacle avoidance. At the same time, LiDAR can be combined with pre-collected high-precision maps to achieve centimeter-level positioning accuracy to achieve autonomous navigation.

Mechanical laser radar, such as multi-line laser radar, has multiple laser transceiver modules. During the offline matching process of laser radar, they need to be matched or debugged one by one, which has a very long impact on the production cycle of laser radar and the cost will increase accordingly. Semi-solid/solid state does not have similar problems, especially pure solid state, where the chip directly transmits and receives laser radar, and there is no need for so-called matching and debugging. The cost is on a downward trend from mechanical to semi-solid to solid state. In addition, with large-scale mass production, the cost of automotive laser radar will also be on a downward channel.

The large-scale application stage of laser radar needs to significantly reduce costs and increase product life. Laser radar with chip architecture can integrate hundreds of discrete devices into one chip, which reduces the volume, reduces material costs, and improves reliability. Laser radar with chip architecture is the future development direction.

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The performance of laser radar, especially resolution and detection range, is continuously improving. High-precision three-dimensional environment modeling, long-distance detection capability and adaptability to complex environments make the role of laser radar in autonomous driving more and more important. In the future, the detection range of laser radar will be further increased, and the resolution will also be improved, which will be able to perceive obstacles in the surrounding environment more finely, especially when driving at high speeds.

Stable car sales, rising penetration rate of autonomous driving, and the rigid demand for automotive LiDAR for autonomous driving have determined the blue ocean market for automotive LiDAR.

This report studies the global Automotive Lidar Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Lidar Sensor 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 Automotive Lidar Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Automotive Lidar Sensor total production and demand, 2021-2032, (K Units)
Global Automotive Lidar Sensor total production value, 2021-2032, (USD Million)
Global Automotive Lidar Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Automotive Lidar Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Automotive Lidar Sensor domestic production, consumption, key domestic manufacturers and share
Global Automotive Lidar Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Automotive Lidar Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Automotive Lidar Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automotive Lidar Sensor market based on

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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 Hesai Tech, RoboSense, Huawei, Seyond, Valeo, Luminar, Ouster, Innoviz, Aeva, Cepton, 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 Automotive Lidar Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K 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 Automotive Lidar Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Lidar Sensor Market, Segmentation by Type:

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Main LiDAR

Blind Spot LiDAR

Global Automotive Lidar Sensor Market, Segmentation by Application:

ADAS

Autonomous Driving

Companies Profiled:

Hesai Tech

RoboSense

Huawei

Seyond

Valeo

Luminar

Ouster

Innoviz

Aeva

Cepton

Key Questions Answered:

1. How big is the global Automotive Lidar Sensor market?
2. What is the demand of the global Automotive Lidar Sensor market?
3. What is the year over year growth of the global Automotive Lidar Sensor market?

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4. What is the production and production value of the global Automotive Lidar Sensor market?
5. Who are the key producers in the global Automotive Lidar Sensor market?
6. What are the growth factors driving the market demand?

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Figure 50. Research Process and Data Source

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