

Global In-vehicle LiDAR Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global In-vehicle LiDAR market size was valued at US\$ 978 million in 2024 and is forecast to a readjusted size of USD 10970 million by 2031 with a CAGR of 45.5% during review period.

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. In-vehicle LiDAR is a LiDAR system designed for the automotive industry with high reliability, high safety and high performance requirements to support autonomous driving and advanced driver assistance systems (ADAS). Compared with ordinary LiDAR, automotive-grade LiDAR has higher standards in terms of working environment, anti-interference ability, fault safety and durability, and can cope with various complex driving environments and extreme conditions.

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.

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 is a detailed and comprehensive analysis for global In-vehicle LiDAR market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global In-vehicle LiDAR market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2020-2031

Global In-vehicle LiDAR market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2020-2031

Global In-vehicle LiDAR market size and forecasts, by Type and by Application, in

consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2020-2031

Global In-vehicle LiDAR market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (USD/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for In-vehicle LiDAR
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global In-vehicle LiDAR market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

In-vehicle LiDAR market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Main LiDAR

Blind Spot LiDAR

Market segment by Application

ADAS

Autonomous Driving

Major players covered

Hesai Tech

RoboSense

Huawei

Seyond

Valeo

Luminar

Ouster

Innoviz

Aeva

Cepton

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe In-vehicle LiDAR product scope, market overview, market

estimation caveats and base year.

Chapter 2, to profile the top manufacturers of In-vehicle LiDAR, with price, sales quantity, revenue, and global market share of In-vehicle LiDAR from 2020 to 2025.

Chapter 3, the In-vehicle LiDAR competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the In-vehicle LiDAR breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and In-vehicle LiDAR market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of In-vehicle LiDAR.

Chapter 14 and 15, to describe In-vehicle LiDAR sales channel, distributors, customers, research findings and conclusion.

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