

Global 905 and 1550 nm Automotive Lidar Lasers Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global 905 and 1550 nm Automotive Lidar Lasers market size was valued at US\$ 2211 million in 2025 and is forecast to a readjusted size of US\$ 4537 million by 2032 with a CAGR of 10.9% during review period.

905nm and 1550nm automotive LiDAR lasers are the two core light source technologies in the field of autonomous driving. 905nm uses silicon-based materials (such as edge-emitting lasers (EELs) or vertical-cavity surface-emitting lasers (VCSELs), which are low-cost and small in size, making them suitable for passenger car scenarios. However, due to human eye safety restrictions (maximum power detection distance of approximately 150 meters), the emission power needs to be controlled; 1550nm uses indium gallium arsenide (InGaAs) materials, and its wavelength is far away from the visible light band, which is safer for the human eye and has stronger penetration. It can achieve long-range detection of more than 300 meters and is suitable for commercial vehicles and complex environments, but it is expensive and needs to solve heat dissipation and packaging problems. Both construct environmental models by emitting lasers and receiving reflected signals, and combine scanning technologies (such as rotating mirrors and solid-state solutions) to improve perception accuracy. 905nm dominates the current market due to its mature process and low cost, while 1550nm is considered a future trend due to its longer detection distance.

905 nm solution will continue to dominate the passenger car front-end market with approximately USD 1.2 billion and over 60% share. The mature silicon-based VCSEL/edge-emitting laser supply chain will reduce the average unit price to below USD 150. The 1550 nm solution has a scale of approximately USD 700 million and

accounts for 30%, mainly supplying Robotaxi and high-end L3+ models. Due to the need for InGaAs detectors and high-power fiber lasers, the unit price is still as high as over USD 300. Downstream customers include OEMs such as Hesai, Sagitar, Huawei, Innovusion, and Luminar, as well as vehicle and operation platforms such as Mercedes-Benz, Weilai, and Xiaopeng. It is expected that from 2025 to 2027, the 905 nm solution will continue to increase in volume and test the 150,000-200,000 yuan models, while the 1550 nm solution will continue to increase in volume and test the 150,000-200,000 yuan models. As FMCW and pure solid-state solutions mature and their cost curves decline steeply, the penetration rate of nm will increase from 30% in 2024 to 45%. The price gap between the two is expected to narrow to less than 1.5 times in 2027.

This report is a detailed and comprehensive analysis for global 905 and 1550 nm Automotive Lidar Lasers 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 905 and 1550 nm Automotive Lidar Lasers market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 905 and 1550 nm Automotive Lidar Lasers market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 905 and 1550 nm Automotive Lidar Lasers market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 905 and 1550 nm Automotive Lidar Lasers market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

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 905 and 1550 nm Automotive Lidar Lasers

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 905 and 1550 nm Automotive Lidar Lasers 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 IPG Photonics, Osram, Hamamatsu, II-VI Coherent, TRUMPF, Lumnetum, Fujikura, Lumibird, AOI, Exalos, etc.

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

Market Segmentation

905 and 1550 nm Automotive Lidar Lasers market is split by Type and by Application. For the period 2021-2032, 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

Detector Type: Si Detector

Detector Type: Ge Detector

Detector Type: InGaAs Detector

Other

Market segment by Application

Sedan

SUV

Major players covered

IPG Photonics

Osram

Hamamatsu

II-VI Coherent

TRUMPF

Lumnetum

Fujikura

Lumibird

AOI

Exalos

Focuslight Technologies

Suzhou Everbright Photonics

Vertilite

Hitronics Technologies

Zhejiang RaySea Technology

Wuhan Raycus Fiber Laser Technologies

Maxphotonics

CONNET FIBER OPTICS

LeiShen Intelligent System

Advanced Fiber Resources (Zhuhai)

O-Net Technologies (Group)

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 905 and 1550 nm Automotive Lidar Lasers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 905 and 1550 nm Automotive Lidar Lasers, with price, sales quantity, revenue, and global market share of 905

and 1550 nm Automotive Lidar Lasers from 2021 to 2026.

Chapter 3, the 905 and 1550 nm Automotive Lidar Lasers competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 905 and 1550 nm Automotive Lidar Lasers breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and 905 and 1550 nm Automotive Lidar Lasers market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 905 and 1550 nm Automotive Lidar Lasers.

Chapter 14 and 15, to describe 905 and 1550 nm Automotive Lidar Lasers sales channel, distributors, customers, research findings and conclusion.

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