

Global Automotive LiDAR Window 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 Automotive LiDAR Window market size was valued at US\$ 69.43 million in 2025 and is forecast to a readjusted size of US\$ 349 million by 2032 with a CAGR of 25.9% during review period.

In 2025, global Automotive LiDAR Window production reached approximately 614k units, with an average global market price of around US\$110 per unit.

An Automotive LiDAR Window is a high-transmittance optical window mounted on the exterior of a vehicle LiDAR sensor, designed to protect the internal emitter and receiver modules while ensuring low-distortion, high-transmission performance at specific wavelengths (commonly 905 nm or 1550 nm). It is typically made from optical glass or advanced optical polymers with anti-reflection, anti-fog, hydrophobic, scratch-resistant, and weather-resistant coatings to meet automotive-grade reliability requirements under temperature shock, UV exposure, salt spray, dust, and mechanical stress. It serves as a critical optical interface for ADAS and autonomous driving perception systems.

Upstream for automotive LiDAR windows includes suppliers of optical substrates and coating materials, along with precision processing and coating equipment ecosystems. Key inputs include optical glass (quartz, borosilicate), optical-grade polycarbonate and PMMA, sputtering targets, AR and functional coating materials, and structural/optical sealants. Representative materials and optics suppliers include Corning, AGC, and SCHOTT for optical glass, and Covestro and SABIC for high-performance optical polymers; vacuum coating and precision optics processors are also critical. Midstream players are LiDAR window and optical sub-module manufacturers that co-design with LiDAR sensor makers. Downstream customers are LiDAR OEMs and automotive

manufacturers deploying ADAS and autonomous driving systems, with representative ecosystem companies including Velodyne, Luminar, Hesai, RoboSense, and vehicle OEM groups such as Tesla, Volvo, and SAIC.

The annual production capacity of a single-line Automotive LiDAR Window is approximately 8k units, with a gross profit margin of approximately 25%–45%.

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

Global Automotive LiDAR Window 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 Automotive LiDAR Window 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 Automotive LiDAR Window 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 Automotive LiDAR Window
- 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 Automotive LiDAR Window 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 AccuCoat, Altechna, AGC, Luminar Technologies, Schott, EKSMA Optics, Edmund Optics, Newport Corporation, Thorlabs, Esco Optics, etc.

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

Market Segmentation

Automotive LiDAR Window 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

Optical Glass

Optical Plastics

Market segment by Structural Form

Plane

Arc

Market segment by Application

Commercial Vehicles

Passenger Vehicles

Major players covered

AccuCoat

Altechna

AGC

Luminar Technologies

Schott

EKSMA Optics

Edmund Optics

Newport Corporation

Thorlabs

Esco Optics

Shentong Technology

Sunny Optical

Fran Optics

Xideguang Safety Technology

Crystal Optoelectronics

Hesai Technology

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 Automotive LiDAR Window product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive LiDAR Window, with price, sales quantity, revenue, and global market share of Automotive LiDAR Window from 2021 to 2026.

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

Chapter 4, the Automotive LiDAR Window 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 Automotive LiDAR Window 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 Automotive LiDAR Window.

Chapter 14 and 15, to describe Automotive LiDAR Window sales channel, distributors, customers, research findings and conclusion.

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