

# **Automotive Gyroscope Market Size, Trends, Analysis, and Outlook by Type (MEMS Gyroscope, Ring Laser Gyroscope (RLG), Fiber-Optic Gyroscope (FOG), Hemispherical Resonator Gyroscope (HRG), Dynamically Tuned Gyroscope (DTG), Others), Application (Internal Navigation Sensors, Air Conditioning Compressor Sensor, Brake Force Sensors & Suspension Control Accelerometers, Fuel Level & Vapor Pressure Sensors, Airbag Sensors, Intelligent Tires, Others), Output (Analog, Digital), Dimensions (1 Axis, 2 Axis, 3 Axis), by Country, Segment, and Companies, 2024-2030**

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## **Abstracts**

The global Automotive LiDAR market size is poised to register 30.78% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The study analyzes the global Automotive LiDAR market by Technology (Solid-state LiDAR, Mechanical LiDAR), Image Type, 2D, 3D), Location (Bumpers & Grills, Headlights & Taillights, Roofs & Upper Pillars, Others), Level of Autonomy (Semi-autonomous, Autonomous), Vehicle (Passenger Cars, Commercial Vehicles), Electric Vehicle (BEV, FCEV, HEV, PHEV).

The Automotive LiDAR (Light Detection and Ranging) Market is poised for significant advancement until 2030, driven by pivotal trends and drivers. With the automotive industry's increasing emphasis on safety, autonomy, and perception capabilities, there's a growing demand for LiDAR systems that offer enhanced range, resolution, and

reliability for object detection and scene mapping. This demand is further propelled by the rapid evolution of autonomous driving technologies, advanced driver assistance systems (ADAS), and the need for precise environmental sensing in complex urban environments. In addition, as vehicle designs evolve toward higher levels of automation, there's a trend toward the development of LiDAR solutions that are more compact, cost-effective, and seamlessly integrated into vehicle architectures. Further, advancements in LiDAR technology, including the use of solid-state LiDAR, multi-beam scanning, and long-range detection capabilities, are anticipated to enable the production of LiDAR systems with improved performance, reduced size, and lower costs. Furthermore, the increasing integration of LiDAR with other sensor modalities, such as radar and cameras, as well as with vehicle-to-everything (V2X) communication systems, is expected to drive market growth for LiDAR solutions with enhanced perception capabilities, real-time data fusion, and cooperative sensing functionalities, shaping the future landscape of the Automotive LiDAR Market toward 2030. .

#### Automotive LiDAR Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The Automotive LiDAR market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Automotive LiDAR survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the Automotive LiDAR industry.

#### Key market trends defining the global Automotive LiDAR demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

#### Automotive LiDAR Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The Automotive LiDAR industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support Automotive LiDAR companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

### Key strategies adopted by companies within the Automotive LiDAR industry

Leading Automotive LiDAR companies are boosting investments to capitalize on untapped potential and future possibilities across niche market segments and surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 Automotive LiDAR companies.

### Automotive LiDAR Market Study- Strategic Analysis Review

The Automotive LiDAR market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

**Industry Dynamics:** Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

**Strategic Insights:** Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

**Internal Strengths and Weaknesses:** Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

**Future Possibilities:** Prepare for diverse outcomes with in-depth scenario analysis.

Explore potential market disruptions, technology advancements, and economic changes.

### Automotive LiDAR Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Automotive LiDAR industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2030 in three case scenarios- low case, reference case, and high case scenarios.

### Automotive LiDAR Country Analysis and Revenue Outlook to 2030

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2030. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2030.

### North America Automotive LiDAR Market Size Outlook- Companies plan for focused investments in a changing environment

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong end-user industry demand. Leading companies focus on new product launches in the changing environment. The US economy is expected to grow in 2024 (around 2.2% growth in

2024), potentially driving demand for various Automotive LiDAR market segments. Similarly, Strong end-user demand is encouraging Canadian Automotive LiDAR companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico Automotive LiDAR market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

**Europe Automotive LiDAR Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities**

The German industry remains the major market for companies in the European Automotive LiDAR industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of businesses in identifying and leveraging new growth prospects positions the European Automotive LiDAR market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding of consumer preferences.

**Asia Pacific Automotive LiDAR Market Size Outlook- an attractive hub for opportunities for both local and global companies**

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for Automotive LiDAR in Asia Pacific. In particular, China, India, and South East Asian Automotive LiDAR markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major markets in the region.

**Latin America Automotive LiDAR Market Size Outlook- Continued urbanization and rising income levels**

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

Middle East and Africa Automotive LiDAR Market Size Outlook- continues its upward trajectory across segments

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East Automotive LiDAR market potential. Fueled by increasing consumption expenditure, growing population, and high demand across a few markets drives the demand for Automotive LiDAR.

#### Automotive LiDAR Market Company Profiles

The global Automotive LiDAR market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are Continental AG, Denso Corp, KUBOTA Corp, LeddarTech Inc, Quanergy Solutions Inc, Robert Bosch GmbH, Teledyne Geospatial, ValeoVelodyne LiDAR Inc.

#### Recent Automotive LiDAR Market Developments

The global Automotive LiDAR market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

#### Automotive LiDAR Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2030 (Forecast Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

Qualitative Analysis

Pricing Analysis

Value Chain Analysis

SWOT Profile

Market Dynamics- Trends, Drivers, Challenges

Porter's Five Forces Analysis

Macroeconomic Impact Analysis

Case Scenarios- Low, Base, High

#### Market Segmentation:

Technology

Solid-state LiDAR

Mechanical LiDAR

Image Type

2D

3D

Location

Bumpers & Grills

Headlights & Taillights

Roofs & Upper Pillars

Others

Level of Autonomy

Semi-autonomous

Autonomous

Vehicle

Passenger Cars

Commercial Vehicles

Electric Vehicle

BEV

FCEV

HEV

PHEV

Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

Companies

Continental AG

Denso Corp

KUBOTA Corp

LeddarTech Inc

Quanergy Solutions Inc

Robert Bosch GmbH

Teledyne Geospatial

ValeoVelodyne LiDAR Inc.

Formats Available: Excel, PDF, and PPT

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Dynamically Tuned Gyroscope (DTG)  
Others  
Application  
Internal Navigation Sensors  
Air Conditioning Compressor Sensor  
Brake Force Sensors & Suspension Control Accelerometers  
Fuel Level & Vapor Pressure Sensors  
Airbag Sensors  
Intelligent Tires  
Others  
Output Type  
Analog  
Digital  
Dimensions

## **1 AXIS**

## **2 AXIS**

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