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Global Sensor Market for Automated Vehicles Size Study & Forecast, by Component, Propulsion, Level of Autonomy, and Regional Forecasts 2025-2035

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Abstracts

The Global Sensor Market for Automated Vehicles was valued at approximately USD 1.06 billion in 2024 and is projected to skyrocket with an astonishing compound annual growth rate (CAGR) of 62.60% over the forecast period from 2025 to 2035. As the automotive industry transitions into the age of autonomy, sensors have emerged as the silent sentinels powering this evolution. These intricate components are no longer just auxiliary technologies; they form the very nerve system of next-generation vehicles. Through real-time environmental mapping, motion prediction, and decision-making facilitation, sensors orchestrate a seamless driving experience. Market momentum is being catalyzed by the growing investments in AI-powered perception systems, legislative pushes for safer roads, and OEMs accelerating their shift toward Level 4 autonomous driving capabilities. From LiDAR and radar to ultrasonic sensors and advanced vision systems, the sensor ecosystem is diversifying and consolidating rapidly.

Driven by the need for greater situational awareness and split-second responsiveness, automated vehicles are being designed with intricate sensor suites that integrate via sensor fusion algorithms, which ensure redundancy and contextual intelligence. This fusion of data streams empowers autonomous systems to detect, interpret, and react more accurately than ever. Moreover, electric vehicles (EVs) are uniquely synergizing with automation technologies, creating demand for compact, efficient, and scalable sensor platforms. Software platforms have likewise matured to support real-time edge processing and over-the-air updates, reducing latency and unlocking predictive and preventive analytics capabilities. Propulsion mode and level of autonomy are now intrinsic in determining sensor configurations, giving rise to flexible, platform-agnostic sensor stacks tailor-fit for different OEM strategies.

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Regionally, North America stands at the frontier of this revolution, benefitting from a dynamic collaboration network between AI research labs, mobility startups, and legacy auto giants. The United States, in particular, is fostering an environment ripe for Level 3+ vehicle testing with supportive regulations and infrastructure development. Europe, buoyed by its sustainable mobility policies and safety-focused directives, is making strides in integrating sensor-rich systems into both premium and mid-segment vehicles. Meanwhile, Asia Pacific is fast becoming the epicenter of production and innovation, with countries like China and Japan investing aggressively in smart city ecosystems and EV infrastructure, thereby catalyzing demand for advanced vehicle sensors. India, although in earlier adoption stages, is set to emerge as a promising market owing to increasing government initiatives toward intelligent transport and localization of ADAS manufacturing.

Major market player included in this report are:

Bosch GmbH

Aptiv PLC

DENSO Corporation

Velodyne Lidar, Inc.

Continental AG

NVIDIA Corporation

LeddarTech Inc.

NXP Semiconductors

Aeva Technologies, Inc.

ZF Friedrichshafen AG

Innoviz Technologies

Magna International Inc.

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Quanergy Systems, Inc.

Mobileye (Intel Corporation)

Sony Group Corporation

Global Sensor Market for Automated Vehicles Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025-2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By Component:

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Hardware

Software

By Offering:

[Subcategories to be defined as per in-depth research scope]

By Software:

[Subcategories to be defined as per in-depth research scope]

By Level of Autonomy:

L2+

L3

L4

By Propulsion:

ICE

Electric

By Vehicle Type:

[Subcategories to be defined as per in-depth research scope]

By Sensor Platform Approach:

[Subcategories to be defined as per in-depth research scope]

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By Sensor Fusion Process:

[Subcategories to be defined as per in-depth research scope]

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

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- Australia
- South Korea
- Rest of Asia Pacific

Latin America

- Brazil
- Mexico

Middle East & Africa

- UAE
- Saudi Arabia
- South Africa
- Rest of Middle East & Africa

Key Takeaways:

- Market Estimates & Forecast for 10 years from 2025 to 2035.
- Annualized revenues and regional level analysis for each market segment.
- Detailed analysis of geographical landscape with Country level analysis of major regions.
- Competitive landscape with information on major players in the market.
- Analysis of key business strategies and recommendations on future market approach.

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Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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