

Automotive LiDAR Sensors Market By Type (Time of Flight (ToF), Frequency-Modulated-Continuous-Wave (FMCW)), By Technology (Solid-state, Electro-mechanical), By Image Type (2 Dimensional, 3 Dimensional), By Vehicle Type (Internal Combustion Engine (ICE), Hybrid, Battery Electric), By Application (Semi-autonomous Vehicles, Autonomous Vehicles): Global Opportunity Analysis and Industry Forecast, 2021-2031

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Report description:

The global automotive LiDAR sensors market size was valued at \$793.2 million in 2021, and is anticipated to reach \$11,728.9 million by 2031, growing at a CAGR of 31.7% from 2022 to 2031. Automotive LiDAR sensors are also known as laser scanners, time of flight (ToF), or laser radar. LiDAR sensors are widely used in clear liquid, which is widely used in a variety of fields, including autonomous vehicles, river surveys, agriculture, and pollution modeling.

Automotive LiDAR sensors are a subset of the category of vehicles and autos. It is an environmentally friendly fuel that burns cleanly. Automotive LiDAR is an excellent hydrogen sensor that can pack more hydrogen from alcohol molecules. As automotive LiDAR sensors specify Field-of-View (FoV), detection rate, and scan pattern. These factors help to supplement the growth for automotive LiDAR sensors market share. However, the cost is still a significant factor and its incapability to measure distance through fog and heavy rain hamper the automotive LiDAR sensors market growth.

The growing popularity of LiDAR sensors in automotive sector is majorly owing to its applications in advanced driver assistance systems (ADAS) market. Valeo is one of the leading players in the automotive sector that boost the development of autonomous vehicles. The LiDAR sensors identifies, detects, and categorizes all objects around the car. These sensors can effectively measure the direction and speed of moving objects. The LiDAR sensors used in the self-driving cars protect the people in the car as well as

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the objects around the car.

The key players profiled in this report include Robert Bosch GmbH, Continental AG, First Sensor AG, Hella KGaA Hueck & Co., Denso Corp, Novariant, Inc., Quanergy Systems, Inc., Laddartech, Phantom Intelligence, and Velodyne LiDAR, Inc.

Key Benefits For Stakeholders

- This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the automotive lidar sensors market analysis from 2021 to 2031 to identify the prevailing automotive lidar sensors market opportunities.
- The market research is offered along with information related to key drivers, restraints, and opportunities.
- Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.
- In-depth analysis of the automotive lidar sensors market segmentation assists to determine the prevailing market opportunities.
- Major countries in each region are mapped according to their revenue contribution to the global market.
- Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.
- The report includes the analysis of the regional as well as global automotive lidar sensors market trends, key players, market segments, application areas, and market growth strategies.

Key Market Segments

By Type

- Time of Flight (ToF)
- Frequency-Modulated-Continuous-Wave (FMCW)

By Technology

- Solid-state
- Electro-mechanical

By Image Type

- 2 Dimensional
- 3 Dimensional

By Vehicle Type

- Internal Combustion Engine (ICE)
- Hybrid
- Battery Electric

By Application

- Semi-autonomous Vehicles
- Autonomous Vehicles

By Region

- North America
- U.S.
- Canada
- Mexico
- Europe
- Germany
- United Kingdom
- France
- Spain
- Italy
- Rest of Europe
- Asia-Pacific
- China
- Japan

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- India
- South Korea
- Australia
- Rest Of Asia Pacific
- LAMEA
- Brazil
- Saudi Arabia
- UAE
- South Africa
- Rest of LAMEA
- Key Market Players
- Robert Bosch GmbH
- Continental AG
- First Sensor AG
- Hella KGaA Hueck & Co.
- Denso Corp
- Novariant, Inc.
- Quanergy Systems, Inc.
- LeddarTech
- Velodyne LiDAR, Inc.
- Texas Instruments Incorporated

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