

Global Automotive Mechanical Lidar Market Growth 2024-2030

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Abstracts

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Automotive lidar is a sensor used in automobile autonomous driving systems. It uses laser beams to detect the surrounding environment, including other vehicles, pedestrians, obstacles and road signs, etc., thereby helping car systems sense and understand the surrounding road conditions. This kind of lidar determines the position, shape and distance of an object by emitting a laser beam and detecting the reflection of the laser beam with surrounding objects. It is usually mounted on the top or front of the vehicle and has 360-degree field of view coverage, enabling it to scan the surrounding environment quickly and efficiently. The working principle of automotive mechanical lidar is to use the reflection of laser beams in the surrounding environment to calculate the position and distance of objects. It usually has the characteristics of high resolution and high accuracy, can accurately detect and identify target objects in the surrounding environment, and provides the necessary perception and positioning capabilities for the vehicle's autonomous driving system. The 'mechanical' in the name of mechanical lidar refers to the rotating mechanical structure used internally to scan the surrounding environment. Compared with solid-state lidar, mechanical lidar may have limitations in scanning speed and angle range, but it has a higher stability and reliability.

The global Automotive Mechanical Lidar market size is projected to grow from US\$ million in 2024 to US\$ million in 2030; it is expected to grow at a CAGR of %from 2024 to 2030.

LP Information, Inc. (LPI) ' newest research report, the "Automotive Mechanical Lidar Industry Forecast" looks at past sales and reviews total world Automotive Mechanical Lidar sales in 2023, providing a comprehensive analysis by region and market sector of

projected Automotive Mechanical Lidar sales for 2024 through 2030. With Automotive Mechanical Lidar sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Automotive Mechanical Lidar industry.

This Insight Report provides a comprehensive analysis of the global Automotive Mechanical Lidar landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Automotive Mechanical Lidar portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Automotive Mechanical Lidar market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Mechanical Lidar and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Automotive Mechanical Lidar.

United States market for Automotive Mechanical Lidar is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

China market for Automotive Mechanical Lidar is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Europe market for Automotive Mechanical Lidar is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Global key Automotive Mechanical Lidar players cover Robert Bosch, Continental, Denso, TE Connectivity, Hella KGaA Hueck, etc. In terms of revenue, the global two largest companies occupied for a share nearly

% in 2023.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive Mechanical Lidar market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Fixed

Spiral

Segmentation by Application:

Passenger Vehicle

Commercial Vehicle

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Robert Bosch

Continental

Denso

TE Connectivity

Hella KGaA Hueck

Leddar Tech

Quanergy Systems

Velodyne

Slamtec Co., Ltd

Robosense Technology Co., Ltd

Leishen Intelligence System Co., Ltd

Neuvition Technology Co., Ltd

Litra Technology Co., Ltd

Hesai Group

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Mechanical Lidar market?

What factors are driving Automotive Mechanical Lidar market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Automotive Mechanical Lidar market opportunities vary by end market size?

How does Automotive Mechanical Lidar break out by Type, by Application?

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