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Global LiDAR for Automotive and Industrial Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global LiDAR for Automotive and Industrial market size will reach 3,668.62 Million USD in 2025 and is projected to reach 23,419.64 Million USD by 2032, with a CAGR of 30.32% (2025-2032). Notably, the China LiDAR for Automotive and Industrial market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

LiDAR (Light Detection and Ranging) is an active remote sensing technology that uses laser pulses to measure distances and create high-resolution 3D maps of the environment. It is widely used in automotive and industrial applications for object detection and avoidance, navigation, and localization.
In the automotive industry, LiDAR technology is a key component of some advanced driver assistance systems (ADAS) and self-driving cars. LiDAR sensors can detect and classify objects on the road, including pedestrians, cyclists, other vehicles, and obstacles, to help the vehicle avoid collisions and stay on course. LiDAR also provides accurate distance measurements and speed estimates, enabling the vehicle to maintain a safe following distance and adjust its speed accordingly.
LiDAR technology is also used in industrial applications such as robotics, manufacturing, and logistics. In robotics, LiDAR sensors are used for navigation and mapping, allowing robots to move around environments autonomously and avoid obstacles. In manufacturing and logistics, LiDAR is used for inventory management and

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tracking of goods and materials.
Advancements in LiDAR technology have led to the development of smaller, lighter, and more affordable sensors, making them more accessible to a wider range of applications. The potential for LiDAR to improve safety and efficiency in automotive and industrial settings makes it an exciting technology with many promising use cases.

The major global manufacturers of LiDAR for Automotive and Industrial include Valeo, Robosense, Luminar, Livox, Quanergy, Waymo, Ouster, LeddarTech, Continental, Cepton, Innoviz, Ibeo, Huwei, Innovusion, Hesai, Velodyne, Denso, LeiShen Intelligent System, SureStar, Benewake, Encradar, FaseLase, Aeva, Beijing Wanji Technology, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of LiDAR for Automotive and Industrial. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global LiDAR for Automotive and Industrial market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the LiDAR for Automotive and Industrial market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of LiDAR for Automotive and Industrial industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc.

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Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of LiDAR for Automotive and Industrial Include:

Valeo

Robosense

Luminar

Livox

Quanergy

Waymo

Ouster

LeddarTech

Continental

Cepton

Innoviz

Ibeo

Huwei

Innovusion

Hesai

Velodyne

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Denso

LeiShen Intelligent System

SureStar

Benewake

Encradar

FaseLase

Aeva

Beijing Wanji Technology

LiDAR for Automotive and Industrial Product Segment Include:

905 nm

1550 nm

1064 nm

885 mn

Others

LiDAR for Automotive and Industrial Product Application Include:

Commercial Vehicle

Passenger Vehicle

Rail Transit

Others

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Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

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