

Global Multi-Beam LiDAR Market Growth 2026-2032

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Abstracts

The global Multi-Beam LiDAR market size is predicted to grow from US\$ 579 million in 2025 to US\$ 3976 million in 2032; it is expected to grow at a CAGR of 31.8% from 2026 to 2032.

In 2025, global Multi-Beam LiDAR production reached approximately 1.69 million units with an average global market price of around US\$350 per unit. Multi-beam LiDAR is an advanced sensor technology that increases data point density by using multiple beams, enhancing the capture of target object details, which is critical for precise navigation and safety in autonomous driving. However, more beams lead to higher costs, complex hardware, increased computational demands, and power consumption, requiring a trade-off based on application needs: 96-128 beams suffice for L2+ assisted driving, over 128 beams for urban NOA, and 192+ beams for Robotaxi in extreme conditions. Dynamic focusing technology can boost precision in critical areas, balancing performance and power. Beam count must align with computing power, algorithms, and scenarios, with future trends moving toward high beam counts at lower costs. North America and Europe pioneered LiDAR development, but some manufacturers have declined amid competition. Chinese manufacturers, driven by policy support and market demand, have rapidly grown to dominate the industry.

The multi-beam LiDAR industry will become a core driver for corporate revenue growth, accompanying the commercialization of L3 and above autonomous driving. As OEMs accelerate pre-installed mass production, enterprises like Huawei and Wanji Technology are promoting the development of products towards high line counts, solid-state, and chip-based integration by conquering automotive-grade certification and reducing costs, thereby enhancing product added value and market penetration. In terms of technology roadmap, innovations in optical architectures and the maturation of technologies such as MEMS and rotating mirrors will optimize the performance-to-power ratio, meeting the demands of high-level scenarios like Urban NOA and

Robotaxi, and solidifying corporate competitive barriers. The trend of synergy and integration across the upstream and downstream industry chains is significant, with the acceleration of domestic supply chain substitution. Enterprises are optimizing cost structures and achieving economies of scale through modular production and algorithmic collaboration. Furthermore, the expansion of applications in non-automotive fields will open new growth points, further releasing market potential.

LP Information, Inc. (LPI) ' newest research report, the "Multi-Beam LiDAR Industry Forecast" looks at past sales and reviews total world Multi-Beam LiDAR sales in 2025, providing a comprehensive analysis by region and market sector of projected Multi-Beam LiDAR sales for 2026 through 2032. With Multi-Beam LiDAR sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Multi-Beam LiDAR industry.

This Insight Report provides a comprehensive analysis of the global Multi-Beam 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 Multi-Beam LiDAR portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Multi-Beam LiDAR market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Multi-Beam 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 Multi-Beam LiDAR.

This report presents a comprehensive overview, market shares, and growth opportunities of Multi-Beam LiDAR market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Mechanical

Hybrid Solid-State

Solid-State

Segmentation by Ranging Principle:

?50m

50?150m

150?300m

?300m

Segmentation by Field of View:

Horizontal FOV

Vertical FOV

Segmentation by Application:

Autonomous Vehicle

Advanced Driver-Assistance Vehicle

Industrial Robot

Others

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.

Innoviz Technologies

Valeo

SICK

Neuvition

Aeva Technologies

Koito

Ouster

Luminar

Huawei

Shenzhen Leishen Intelligent

Shenzhen RoboSense Technology

Tanway Technology

Suzhou Innovusion

Shenzhen Livox Technology

Beijing VanJee Technology

Beijing Richbeam

Hesai Group

Beijing Encradar

SureStar

Key Questions Addressed in this Report

What is the 10-year outlook for the global Multi-Beam LiDAR market?

What factors are driving Multi-Beam LiDAR market growth, globally and by region?

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

How do Multi-Beam LiDAR market opportunities vary by end market size?

How does Multi-Beam LiDAR break out by Type, by Application?

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