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Global Multi-Beam LiDAR Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Multi-Beam LiDAR market size is expected to reach $ 3838 million by 2032, rising at a market growth of 30.0% CAGR during the forecast period (2026-2032).

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-

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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.

This report studies the global Multi-Beam LiDAR production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Multi-Beam LiDAR and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Multi-Beam LiDAR that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Multi-Beam LiDAR total production and demand, 2021-2032, (K Units)
Global Multi-Beam LiDAR total production value, 2021-2032, (USD Million)
Global Multi-Beam LiDAR production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Multi-Beam LiDAR consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Multi-Beam LiDAR domestic production, consumption, key domestic manufacturers and share
Global Multi-Beam LiDAR production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Multi-Beam LiDAR production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Multi-Beam LiDAR production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Multi-Beam LiDAR market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Innoviz Technologies, Valeo, SICK, Neuvition, Aeva Technologies, Koito, Ouster, Luminar, Huawei, Shenzhen Leishen Intelligent, etc.

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This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Multi-Beam LiDAR market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Multi-Beam LiDAR Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Multi-Beam LiDAR Market, Segmentation by Type:

Mechanical

Hybrid Solid-State

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Solid-State

Global Multi-Beam LiDAR Market, Segmentation by Ranging Principle:

?50m

50?150m

150?300m

?300m

Global Multi-Beam LiDAR Market, Segmentation by Field of View:

Horizontal FOV

Vertical FOV

Global Multi-Beam LiDAR Market, Segmentation by Application:

Autonomous Vehicle

Advanced Driver-Assistance Vehicle

Industrial Robot

Others

Companies Profiled:

Innoviz Technologies

Valeo

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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 Answered:
1. How big is the global Multi-Beam LiDAR market?
2. What is the demand of the global Multi-Beam LiDAR market?
3. What is the year over year growth of the global Multi-Beam LiDAR market?

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4. What is the production and production value of the global Multi-Beam LiDAR market?
5. Who are the key producers in the global Multi-Beam LiDAR market?
6. What are the growth factors driving the market demand?

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