

Global Multi-Beam LiDAR Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Multi-Beam LiDAR market size was valued at US\$ 445 million in 2024 and is forecast to a readjusted size of USD 1471 million by 2031 with a CAGR of 18.6% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

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.

This report is a detailed and comprehensive analysis for global Multi-Beam LiDAR market. Both quantitative and qualitative analyses are presented by manufacturers, by

region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Multi-Beam LiDAR market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Multi-Beam LiDAR market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Multi-Beam LiDAR market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Multi-Beam LiDAR market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Multi-Beam LiDAR
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Multi-Beam LiDAR market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Velodyne(Ouster), Valeo, Luminar, HUAWEI, Shanghai Hesai Technology, Shenzhen Leishen Intelligent System, Shenzhen Robo Sense Technology, Tanwei Technology (Beijing), Wuhan Tianmou Photoelectric Technology, Seyond (Suzhou), etc.

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

Market Segmentation

Multi-Beam LiDAR market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Mechanical

Hybrid Solid-State

Solid-State

Market segment by Application

Autonomous Vehicle

Advanced Driver-Assistance Vehicle

Industrial Robot

Others

Major players covered

Velodyne(Ouster)

Valeo

Luminar

HUAWEI

Shanghai Hesai Technology

Shenzhen Leishen Intelligent System

Shenzhen Robo Sense Technology

Tanwei Technology (Beijing)

Wuhan Tianmou Photoelectric Technology

Seyond (Suzhou)

Shanghai Xintan

Shenzhen Livox Technology

Beijing VanJee Technology

Beijing LiangDao Automotive Technology

RichBeam(Beijing)Technology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Multi-Beam LiDAR product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Multi-Beam LiDAR, with price, sales quantity, revenue, and global market share of Multi-Beam LiDAR from 2020 to 2025.

Chapter 3, the Multi-Beam LiDAR competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Multi-Beam LiDAR breakdown data are shown at the regional level, to

show the sales quantity, consumption value, and growth by regions, from 2020 to 2031. Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Multi-Beam LiDAR market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Multi-Beam LiDAR.

Chapter 14 and 15, to describe Multi-Beam LiDAR sales channel, distributors, customers, research findings and conclusion.

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