

Global One-Dimensional Rotating Mirror LiDAR Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on One-Dimensional Rotating Mirror LiDAR competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. One-dimensional rotating mirror LiDAR is a laser ranging sensor that achieves horizontal scanning through a single-axis rotating reflector. It is commonly used in scenarios such as low-speed autonomous driving, unmanned delivery vehicles, sweeping robots, and security monitoring. The sales volume in 2024 is about 120,000 units, with an average unit price of about US\$900 and a single-line production capacity of about 250,000 units. Upstream companies mainly come from the fields of optical lenses, lasers, detectors, and electronic control modules, and downstream companies are mainly concentrated in service robot manufacturers, automotive suppliers, smart home equipment manufacturers, and security equipment manufacturers.

The global One-Dimensional Rotating Mirror LiDAR market size was estimated at USD 108.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 6.70% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global One-Dimensional Rotating Mirror LiDAR market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market

positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global One-Dimensional Rotating Mirror LiDAR market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the One-Dimensional Rotating Mirror LiDAR market.

Global One-Dimensional Rotating Mirror LiDAR Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Ibeo
Valeo
Livox
Hesai Technology
Benewake
Leishen Intelligent System
VanJee Technology
O-Net Technologies (Group)

Huawei

Market Segmentation (by Type)

96 Line

128 Line

Others

Market Segmentation (by Application)

Sedan

SUV

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the One-Dimensional Rotating Mirror LiDAR Market

Overview of the regional outlook of the One-Dimensional Rotating Mirror LiDAR Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the One-Dimensional Rotating Mirror LiDAR Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of One-Dimensional Rotating Mirror LiDAR, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share,

product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change
This enables you to anticipate market changes to remain ahead of your competitors
You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of One-Dimensional Rotating Mirror LiDAR
- 1.2 Key Market Segments
 - 1.2.1 One-Dimensional Rotating Mirror LiDAR Segment by Type
 - 1.2.2 One-Dimensional Rotating Mirror LiDAR Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats
- 1.4 Key Data of Global Auto Market
 - 1.4.1 Global Automobile Production by Country
 - 1.4.2 Global Automobile Production by Type

2 ONE-DIMENSIONAL ROTATING MIRROR LIDAR MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global One-Dimensional Rotating Mirror LiDAR Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global One-Dimensional Rotating Mirror LiDAR Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 ONE-DIMENSIONAL ROTATING MIRROR LIDAR MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global One-Dimensional Rotating Mirror LiDAR Product Life Cycle
- 3.3 Global One-Dimensional Rotating Mirror LiDAR Sales by Manufacturers (2020-2025)
- 3.4 Global One-Dimensional Rotating Mirror LiDAR Revenue Market Share by Manufacturers (2020-2025)
- 3.5 One-Dimensional Rotating Mirror LiDAR Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global One-Dimensional Rotating Mirror LiDAR Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 One-Dimensional Rotating Mirror LiDAR Market Competitive Situation and Trends

3.8.1 One-Dimensional Rotating Mirror LiDAR Market Concentration Rate

3.8.2 Global 5 and 10 Largest One-Dimensional Rotating Mirror LiDAR Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 ONE-DIMENSIONAL ROTATING MIRROR LIDAR INDUSTRY CHAIN ANALYSIS

4.1 One-Dimensional Rotating Mirror LiDAR Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF ONE-DIMENSIONAL ROTATING MIRROR LIDAR MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global One-Dimensional Rotating Mirror LiDAR Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to One-Dimensional Rotating Mirror LiDAR Market

5.7 ESG Ratings of Leading Companies

6 ONE-DIMENSIONAL ROTATING MIRROR LiDAR MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global One-Dimensional Rotating Mirror LiDAR Sales Market Share by Type (2020-2025)
- 6.3 Global One-Dimensional Rotating Mirror LiDAR Market Size by Type (2020-2025)
- 6.4 Global One-Dimensional Rotating Mirror LiDAR Price by Type (2020-2025)

7 ONE-DIMENSIONAL ROTATING MIRROR LiDAR MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global One-Dimensional Rotating Mirror LiDAR Market Sales by Application (2020-2025)
- 7.3 Global One-Dimensional Rotating Mirror LiDAR Market Size (M USD) by Application (2020-2025)
- 7.4 Global One-Dimensional Rotating Mirror LiDAR Sales Growth Rate by Application (2020-2025)

8 ONE-DIMENSIONAL ROTATING MIRROR LiDAR MARKET SALES BY REGION

- 8.1 Global One-Dimensional Rotating Mirror LiDAR Sales by Region
 - 8.1.1 Global One-Dimensional Rotating Mirror LiDAR Sales by Region
 - 8.1.2 Global One-Dimensional Rotating Mirror LiDAR Sales Market Share by Region
- 8.2 Global One-Dimensional Rotating Mirror LiDAR Market Size by Region
 - 8.2.1 Global One-Dimensional Rotating Mirror LiDAR Market Size by Region
 - 8.2.2 Global One-Dimensional Rotating Mirror LiDAR Market Size by Region
- 8.3 North America
 - 8.3.1 North America One-Dimensional Rotating Mirror LiDAR Sales by Country
 - 8.3.2 North America One-Dimensional Rotating Mirror LiDAR Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe One-Dimensional Rotating Mirror LiDAR Sales by Country
 - 8.4.2 Europe One-Dimensional Rotating Mirror LiDAR Market Size by Country
 - 8.4.3 Germany Market Overview

- 8.4.4 France Market Overview
- 8.4.5 U.K. Market Overview
- 8.4.6 Italy Market Overview
- 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific One-Dimensional Rotating Mirror LiDAR Sales by Region
 - 8.5.2 Asia Pacific One-Dimensional Rotating Mirror LiDAR Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview
 - 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America One-Dimensional Rotating Mirror LiDAR Sales by Country
 - 8.6.2 South America One-Dimensional Rotating Mirror LiDAR Market Size by Country
 - 8.6.3 Brazil Market Overview
 - 8.6.4 Argentina Market Overview
 - 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa One-Dimensional Rotating Mirror LiDAR Sales by Region
 - 8.7.2 Middle East and Africa One-Dimensional Rotating Mirror LiDAR Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 ONE-DIMENSIONAL ROTATING MIRROR LIDAR MARKET PRODUCTION BY REGION

- 9.1 Global Production of One-Dimensional Rotating Mirror LiDAR by Region(2020-2025)
- 9.2 Global One-Dimensional Rotating Mirror LiDAR Revenue Market Share by Region (2020-2025)
- 9.3 Global One-Dimensional Rotating Mirror LiDAR Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America One-Dimensional Rotating Mirror LiDAR Production
 - 9.4.1 North America One-Dimensional Rotating Mirror LiDAR Production Growth Rate

(2020-2025)

9.4.2 North America One-Dimensional Rotating Mirror LiDAR Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe One-Dimensional Rotating Mirror LiDAR Production

9.5.1 Europe One-Dimensional Rotating Mirror LiDAR Production Growth Rate (2020-2025)

9.5.2 Europe One-Dimensional Rotating Mirror LiDAR Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan One-Dimensional Rotating Mirror LiDAR Production (2020-2025)

9.6.1 Japan One-Dimensional Rotating Mirror LiDAR Production Growth Rate (2020-2025)

9.6.2 Japan One-Dimensional Rotating Mirror LiDAR Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China One-Dimensional Rotating Mirror LiDAR Production (2020-2025)

9.7.1 China One-Dimensional Rotating Mirror LiDAR Production Growth Rate (2020-2025)

9.7.2 China One-Dimensional Rotating Mirror LiDAR Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Ibeo

10.1.1 Ibeo Basic Information

10.1.2 Ibeo One-Dimensional Rotating Mirror LiDAR Product Overview

10.1.3 Ibeo One-Dimensional Rotating Mirror LiDAR Product Market Performance

10.1.4 Ibeo Business Overview

10.1.5 Ibeo SWOT Analysis

10.1.6 Ibeo Recent Developments

10.2 Valeo

10.2.1 Valeo Basic Information

10.2.2 Valeo One-Dimensional Rotating Mirror LiDAR Product Overview

10.2.3 Valeo One-Dimensional Rotating Mirror LiDAR Product Market Performance

10.2.4 Valeo Business Overview

10.2.5 Valeo SWOT Analysis

10.2.6 Valeo Recent Developments

10.3 Livox

10.3.1 Livox Basic Information

10.3.2 Livox One-Dimensional Rotating Mirror LiDAR Product Overview

10.3.3 Livox One-Dimensional Rotating Mirror LiDAR Product Market Performance

- 10.3.4 Livox Business Overview
- 10.3.5 Livox SWOT Analysis
- 10.3.6 Livox Recent Developments
- 10.4 Hesai Technology
 - 10.4.1 Hesai Technology Basic Information
 - 10.4.2 Hesai Technology One-Dimensional Rotating Mirror LiDAR Product Overview
 - 10.4.3 Hesai Technology One-Dimensional Rotating Mirror LiDAR Product Market Performance
 - 10.4.4 Hesai Technology Business Overview
 - 10.4.5 Hesai Technology Recent Developments
- 10.5 Benewake
 - 10.5.1 Benewake Basic Information
 - 10.5.2 Benewake One-Dimensional Rotating Mirror LiDAR Product Overview
 - 10.5.3 Benewake One-Dimensional Rotating Mirror LiDAR Product Market Performance
 - 10.5.4 Benewake Business Overview
 - 10.5.5 Benewake Recent Developments
- 10.6 Leishen Intelligent System
 - 10.6.1 Leishen Intelligent System Basic Information
 - 10.6.2 Leishen Intelligent System One-Dimensional Rotating Mirror LiDAR Product Overview
 - 10.6.3 Leishen Intelligent System One-Dimensional Rotating Mirror LiDAR Product Market Performance
 - 10.6.4 Leishen Intelligent System Business Overview
 - 10.6.5 Leishen Intelligent System Recent Developments
- 10.7 VanJee Technology
 - 10.7.1 VanJee Technology Basic Information
 - 10.7.2 VanJee Technology One-Dimensional Rotating Mirror LiDAR Product Overview
 - 10.7.3 VanJee Technology One-Dimensional Rotating Mirror LiDAR Product Market Performance
 - 10.7.4 VanJee Technology Business Overview
 - 10.7.5 VanJee Technology Recent Developments
- 10.8 O-Net Technologies (Group)
 - 10.8.1 O-Net Technologies (Group) Basic Information
 - 10.8.2 O-Net Technologies (Group) One-Dimensional Rotating Mirror LiDAR Product Overview
 - 10.8.3 O-Net Technologies (Group) One-Dimensional Rotating Mirror LiDAR Product Market Performance
 - 10.8.4 O-Net Technologies (Group) Business Overview

10.8.5 O-Net Technologies (Group) Recent Developments

10.9 Huawei

10.9.1 Huawei Basic Information

10.9.2 Huawei One-Dimensional Rotating Mirror LiDAR Product Overview

10.9.3 Huawei One-Dimensional Rotating Mirror LiDAR Product Market Performance

10.9.4 Huawei Business Overview

10.9.5 Huawei Recent Developments

11 ONE-DIMENSIONAL ROTATING MIRROR LIDAR MARKET FORECAST BY REGION

11.1 Global One-Dimensional Rotating Mirror LiDAR Market Size Forecast

11.2 Global One-Dimensional Rotating Mirror LiDAR Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe One-Dimensional Rotating Mirror LiDAR Market Size Forecast by Country

11.2.3 Asia Pacific One-Dimensional Rotating Mirror LiDAR Market Size Forecast by Region

11.2.4 South America One-Dimensional Rotating Mirror LiDAR Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of One-Dimensional Rotating Mirror LiDAR by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global One-Dimensional Rotating Mirror LiDAR Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of One-Dimensional Rotating Mirror LiDAR by Type (2026-2035)

12.1.2 Global One-Dimensional Rotating Mirror LiDAR Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of One-Dimensional Rotating Mirror LiDAR by Type (2026-2035)

12.2 Global One-Dimensional Rotating Mirror LiDAR Market Forecast by Application (2026-2035)

12.2.1 Global One-Dimensional Rotating Mirror LiDAR Sales (K Units) Forecast by Application

12.2.2 Global One-Dimensional Rotating Mirror LiDAR Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

- Table 1. Introduction of the Type
- Table 2. Introduction of the Application
- Table 3. Global Automobile Production by Region (Units)
- Table 4. Market Share and Development Potential of Automobiles by Region
- Table 5. Global Automobile Production by Country (Units)
- Table 6. Market Share and Development Potential of Automobiles by Country
- Table 7. Motor Vehicle Production Market Share by Type (2024)
- Table 8. Global Automobile Production by Type
- Table 9. Market Share and Development Potential of Automobiles by Type
- Table 10. Global One-Dimensional Rotating Mirror LiDAR Market Size by Type (M USD)
- Table 11. Global One-Dimensional Rotating Mirror LiDAR Market Size by Application
- Table 12. One-Dimensional Rotating Mirror LiDAR Market Size Comparison by Region (M USD)
- Table 13. Global One-Dimensional Rotating Mirror LiDAR Sales (K Units) by Manufacturers (2020-2025)
- Table 14. Global One-Dimensional Rotating Mirror LiDAR Sales Market Share by Manufacturers (2020-2025)
- Table 15. Global One-Dimensional Rotating Mirror LiDAR Revenue (M USD) by Manufacturers (2020-2025)
- Table 16. Global One-Dimensional Rotating Mirror LiDAR Revenue Share by Manufacturers (2020-2025)
- Table 17. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in One-Dimensional Rotating Mirror LiDAR as of 2025)
- Table 18. Global Market One-Dimensional Rotating Mirror LiDAR Average Price (USD/Unit) of Key Manufacturers (2020-2025)
- Table 19. Manufacturers? Manufacturing Sites, Areas Served
- Table 20. Manufacturers? Product Type
- Table 21. Global One-Dimensional Rotating Mirror LiDAR Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 22. Mergers & Acquisitions, Expansion Plans
- Table 23. Market Overview of Key Raw Materials
- Table 24. Midstream Market Analysis
- Table 25. Downstream Customer Analysis
- Table 26. Key Development Trends
- Table 27. Driving Factors

- Table 28. One-Dimensional Rotating Mirror LiDAR Market Challenges
- Table 29. Goldman Sachs' forecast real GDP growth rate for 2025-2026
- Table 30. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027
- Table 31. World Bank ' Forecast Real GDP Growth Rate For 2025-2026
- Table 32. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries
- Table 33. Global One-Dimensional Rotating Mirror LiDAR Sales by Type (K Units)
- Table 34. Global One-Dimensional Rotating Mirror LiDAR Market Size by Type (M USD)
- Table 35. Global One-Dimensional Rotating Mirror LiDAR Sales (K Units) by Type (2020-2025)
- Table 36. Global One-Dimensional Rotating Mirror LiDAR Sales Market Share by Type (2020-2025)
- Table 37. Global One-Dimensional Rotating Mirror LiDAR Market Size (M USD) by Type (2020-2025)
- Table 38. Global One-Dimensional Rotating Mirror LiDAR Market Share by Type (2020-2025)
- Table 39. Global One-Dimensional Rotating Mirror LiDAR Price (USD/Unit) by Type (2020-2025)
- Table 40. Global One-Dimensional Rotating Mirror LiDAR Sales (K Units) by Application
- Table 41. Global One-Dimensional Rotating Mirror LiDAR Market Size by Application
- Table 42. Global One-Dimensional Rotating Mirror LiDAR Sales by Application (2020-2025) & (K Units)
- Table 43. Global One-Dimensional Rotating Mirror LiDAR Sales Market Share by Application (2020-2025)
- Table 44. Global One-Dimensional Rotating Mirror LiDAR Market Size by Application (2020-2025) & (M USD)
- Table 45. Global One-Dimensional Rotating Mirror LiDAR Market Share by Application (2020-2025)
- Table 46. Global One-Dimensional Rotating Mirror LiDAR Sales Growth Rate by Application (2020-2025)
- Table 47. Global One-Dimensional Rotating Mirror LiDAR Sales by Region (2020-2025) & (K Units)
- Table 48. Global One-Dimensional Rotating Mirror LiDAR Sales Market Share by Region (2020-2025)
- Table 49. Global One-Dimensional Rotating Mirror LiDAR Market Size by Region (2020-2025) & (M USD)
- Table 50. Global One-Dimensional Rotating Mirror LiDAR Market Size by Region (2020-2025)
- Table 51. North America One-Dimensional Rotating Mirror LiDAR Sales by Country

(2020-2025) & (K Units)

Table 52. North America One-Dimensional Rotating Mirror LiDAR Market Size by Country (2020-2025) & (M USD)

Table 53. Europe One-Dimensional Rotating Mirror LiDAR Sales by Country (2020-2025) & (K Units)

Table 54. Europe One-Dimensional Rotating Mirror LiDAR Market Size by Country (2020-2025) & (M USD)

Table 55. Asia Pacific One-Dimensional Rotating Mirror LiDAR Sales by Region (2020-2025) & (K Units)

Table 56. Asia Pacific One-Dimensional Rotating Mirror LiDAR Market Size by Region (2020-2025) & (M USD)

Table 57. South America One-Dimensional Rotating Mirror LiDAR Sales by Country (2020-2025) & (K Units)

Table 58. South America One-Dimensional Rotating Mirror LiDAR Market Size by Country (2020-2025) & (M USD)

Table 59. Middle East and Africa One-Dimensional Rotating Mirror LiDAR Sales by Region (2020-2025) & (K Units)

Table 60. Middle East and Africa One-Dimensional Rotating Mirror LiDAR Market Size by Region (2020-2025) & (M USD)

Table 61. Global One-Dimensional Rotating Mirror LiDAR Production (K Units) by Region(2020-2025)

Table 62. Global One-Dimensional Rotating Mirror LiDAR Revenue (US\$ Million) by Region (2020-2025)

Table 63. Global One-Dimensional Rotating Mirror LiDAR Revenue Market Share by Region (2020-2025)

Table 64. Global One-Dimensional Rotating Mirror LiDAR Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. North America One-Dimensional Rotating Mirror LiDAR Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 66. Europe One-Dimensional Rotating Mirror LiDAR Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 67. Japan One-Dimensional Rotating Mirror LiDAR Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 68. China One-Dimensional Rotating Mirror LiDAR Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 69. Ibeo Basic Information

Table 70. Ibeo One-Dimensional Rotating Mirror LiDAR Product Overview

Table 71. Ibeo One-Dimensional Rotating Mirror LiDAR Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 72. Ibeo Business Overview

Table 73. Ibeo SWOT Analysis

Table 74. Ibeo Recent Developments

Table 75. Valeo Basic Information

Table 76. Valeo One-Dimensional Rotating Mirror LiDAR Product Overview

Table 77. Valeo One-Dimensional Rotating Mirror LiDAR Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 78. Valeo Business Overview

Table 79. Valeo SWOT Analysis

Table 80. Valeo Recent Developments

Table 81. Livox Basic Information

Table 82. Livox One-Dimensional Rotating Mirror LiDAR Product Overview

Table 83. Livox One-Dimensional Rotating Mirror LiDAR Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 84. Livox Business Overview

Table 85. Livox SWOT Analysis

Table 86. Livox Recent Developments

Table 87. Hesai Technology Basic Information

Table 88. Hesai Technology One-Dimensional Rotating Mirror LiDAR Product Overview

Table 89. Hesai Technology One-Dimensional Rotating Mirror LiDAR Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 90. Hesai Technology Business Overview

Table 91. Hesai Technology Recent Developments

Table 92. Benewake Basic Information

Table 93. Benewake One-Dimensional Rotating Mirror LiDAR Product Overview

Table 94. Benewake One-Dimensional Rotating Mirror LiDAR Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 95. Benewake Business Overview

Table 96. Benewake Recent Developments

Table 97. Leishen Intelligent System Basic Information

Table 98. Leishen Intelligent System One-Dimensional Rotating Mirror LiDAR Product Overview

Table 99. Leishen Intelligent System One-Dimensional Rotating Mirror LiDAR Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 100. Leishen Intelligent System Business Overview

Table 101. Leishen Intelligent System Recent Developments

Table 102. VanJee Technology Basic Information

Table 103. VanJee Technology One-Dimensional Rotating Mirror LiDAR Product Overview

Table 104. VanJee Technology One-Dimensional Rotating Mirror LiDAR Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 105. VanJee Technology Business Overview

Table 106. VanJee Technology Recent Developments

Table 107. O-Net Technologies (Group) Basic Information

Table 108. O-Net Technologies (Group) One-Dimensional Rotating Mirror LiDAR Product Overview

Table 109. O-Net Technologies (Group) One-Dimensional Rotating Mirror LiDAR Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 110. O-Net Technologies (Group) Business Overview

Table 111. O-Net Technologies (Group) Recent Developments

Table 112. Huawei Basic Information

Table 113. Huawei One-Dimensional Rotating Mirror LiDAR Product Overview

Table 114. Huawei One-Dimensional Rotating Mirror LiDAR Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 115. Huawei Business Overview

Table 116. Huawei Recent Developments

Table 117. Global One-Dimensional Rotating Mirror LiDAR Sales Forecast by Region (2026-2035) & (K Units)

Table 118. Global One-Dimensional Rotating Mirror LiDAR Market Size Forecast by Region (2026-2035) & (M USD)

Table 119. North America One-Dimensional Rotating Mirror LiDAR Sales Forecast by Country (2026-2035) & (K Units)

Table 120. North America One-Dimensional Rotating Mirror LiDAR Market Size Forecast by Country (2026-2035) & (M USD)

Table 121. Europe One-Dimensional Rotating Mirror LiDAR Sales Forecast by Country (2026-2035) & (K Units)

Table 122. Europe One-Dimensional Rotating Mirror LiDAR Market Size Forecast by Country (2026-2035) & (M USD)

Table 123. Asia Pacific One-Dimensional Rotating Mirror LiDAR Sales Forecast by Region (2026-2035) & (K Units)

Table 124. Asia Pacific One-Dimensional Rotating Mirror LiDAR Market Size Forecast by Region (2026-2035) & (M USD)

Table 125. South America One-Dimensional Rotating Mirror LiDAR Sales Forecast by Country (2026-2035) & (K Units)

Table 126. South America One-Dimensional Rotating Mirror LiDAR Market Size Forecast by Country (2026-2035) & (M USD)

Table 127. Middle East and Africa One-Dimensional Rotating Mirror LiDAR Sales Forecast by Country (2026-2035) & (Units)

Table 128. Middle East and Africa One-Dimensional Rotating Mirror LiDAR Market Size Forecast by Country (2026-2035) & (M USD)

Table 129. Global One-Dimensional Rotating Mirror LiDAR Sales Forecast by Type (2026-2035) & (K Units)

Table 130. Global One-Dimensional Rotating Mirror LiDAR Market Size Forecast by Type (2026-2035) & (M USD)

Table 131. Global One-Dimensional Rotating Mirror LiDAR Price Forecast by Type (2026-2035) & (USD/Unit)

Table 132. Global One-Dimensional Rotating Mirror LiDAR Sales (K Units) Forecast by Application (2026-2035)

Table 133. Global One-Dimensional Rotating Mirror LiDAR Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of One-Dimensional Rotating Mirror LiDAR
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Motor Vehicle Production (M Units)
- Figure 5. Global One-Dimensional Rotating Mirror LiDAR Market Size (M USD), 2025-2035
- Figure 6. Global One-Dimensional Rotating Mirror LiDAR Market Size (M USD) (2020-2035)
- Figure 7. Global One-Dimensional Rotating Mirror LiDAR Sales (K Units) & (2020-2035)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 9. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 10. Evaluation Matrix of Regional Market Development Potential
- Figure 11. One-Dimensional Rotating Mirror LiDAR Market Size by Country (M USD)
- Figure 12. Company Assessment Quadrant
- Figure 13. Global One-Dimensional Rotating Mirror LiDAR Product Life Cycle
- Figure 14. One-Dimensional Rotating Mirror LiDAR Sales Share by Manufacturers in 2025
- Figure 15. Global One-Dimensional Rotating Mirror LiDAR Revenue Share by Manufacturers in 2025
- Figure 16. One-Dimensional Rotating Mirror LiDAR Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 17. Global Market One-Dimensional Rotating Mirror LiDAR Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 18. The Global 5 and 10 Largest Players: Market Share by One-Dimensional Rotating Mirror LiDAR Revenue in 2025
- Figure 19. Industry Chain Map of One-Dimensional Rotating Mirror LiDAR
- Figure 20. Global One-Dimensional Rotating Mirror LiDAR Market PEST Analysis
- Figure 21. Global One-Dimensional Rotating Mirror LiDAR Market Porter's Five Forces Analysis
- Figure 22. Global Merchandise Trade as a Percentage Of GDP
- Figure 23. US - Imports of Goods by Country
- Figure 24. China Exports by Country
- Figure 25. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 26. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 27. Global One-Dimensional Rotating Mirror LiDAR Market Share by Type

Figure 28. Sales Market Share of One-Dimensional Rotating Mirror LiDAR by Type (2020-2025)

Figure 29. Sales Market Share of One-Dimensional Rotating Mirror LiDAR by Type in 2025

Figure 30. Market Share of One-Dimensional Rotating Mirror LiDAR by Type (2020-2025)

Figure 31. Market Share of One-Dimensional Rotating Mirror LiDAR by Type in 2025

Figure 32. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 33. Global One-Dimensional Rotating Mirror LiDAR Market Share by Application

Figure 34. Global One-Dimensional Rotating Mirror LiDAR Sales Market Share by Application (2020-2025)

Figure 35. Global One-Dimensional Rotating Mirror LiDAR Sales Market Share by Application in 2025

Figure 36. Global One-Dimensional Rotating Mirror LiDAR Market Share by Application (2020-2025)

Figure 37. Global One-Dimensional Rotating Mirror LiDAR Market Share by Application in 2025

Figure 38. Global One-Dimensional Rotating Mirror LiDAR Sales Growth Rate by Application (2020-2025)

Figure 39. Global One-Dimensional Rotating Mirror LiDAR Sales Market Share by Region (2020-2025)

Figure 40. Global One-Dimensional Rotating Mirror LiDAR Market Size by Region (2020-2025)

Figure 41. North America One-Dimensional Rotating Mirror LiDAR Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America One-Dimensional Rotating Mirror LiDAR Sales and Growth Rate (2020-2025) & (K Units)

Figure 43. North America One-Dimensional Rotating Mirror LiDAR Sales Market Share by Country in 2024

Figure 44. North America One-Dimensional Rotating Mirror LiDAR Market Size and Growth Rate (2020-2025) & (M USD)

Figure 45. North America One-Dimensional Rotating Mirror LiDAR Market Size by Country in 2024

Figure 46. U.S. One-Dimensional Rotating Mirror LiDAR Sales and Growth Rate (2020-2025) & (K Units)

Figure 47. U.S. One-Dimensional Rotating Mirror LiDAR Market Size and Growth Rate (2020-2025) & (M USD)

Figure 48. Canada One-Dimensional Rotating Mirror LiDAR Sales (K Units) and Growth Rate (2020-2025)

Figure 49. Canada One-Dimensional Rotating Mirror LiDAR Market Size (M USD) and Growth Rate (2020-2025)

Figure 50. Mexico One-Dimensional Rotating Mirror LiDAR Sales (Units) and Growth Rate (2020-2025)

Figure 51. Mexico One-Dimensional Rotating Mirror LiDAR Market Size (Units) and Growth Rate (2020-2025)

Figure 52. Europe One-Dimensional Rotating Mirror LiDAR Sales and Growth Rate (2020-2025) & (K Units)

Figure 53. Europe One-Dimensional Rotating Mirror LiDAR Sales Market Share by Country in 2024

Figure 54. Europe One-Dimensional Rotating Mirror LiDAR Market Size and Growth Rate (2020-2025) & (M USD)

Figure 55. Europe One-Dimensional Rotating Mirror LiDAR Market Size by Country in 2024

Figure 56. Germany One-Dimensional Rotating Mirror LiDAR Sales and Growth Rate (2020-2025) & (K Units)

Figure 57. Germany One-Dimensional Rotating Mirror LiDAR Market Size and Growth Rate (2020-2025) & (M USD)

Figure 58. France One-Dimensional Rotating Mirror LiDAR Sales and Growth Rate (2020-2025) & (K Units)

Figure 59. France One-Dimensional Rotating Mirror LiDAR Market Size and Growth Rate (2020-2025) & (M USD)

Figure 60. U.K. One-Dimensional Rotating Mirror LiDAR Sales and Growth Rate (2020-2025) & (K Units)

Figure 61. U.K. One-Dimensional Rotating Mirror LiDAR Market Size and Growth Rate (2020-2025) & (M USD)

Figure 62. Italy One-Dimensional Rotating Mirror LiDAR Sales and Growth Rate (2020-2025) & (K Units)

Figure 63. Italy One-Dimensional Rotating Mirror LiDAR Market Size and Growth Rate (2020-2025) & (M USD)

Figure 64. Spain One-Dimensional Rotating Mirror LiDAR Sales and Growth Rate (2020-2025) & (K Units)

Figure 65. Spain One-Dimensional Rotating Mirror LiDAR Market Size and Growth Rate (2020-2025) & (M USD)

Figure 66. Asia Pacific One-Dimensional Rotating Mirror LiDAR Sales and Growth Rate (K Units)

Figure 67. Asia Pacific One-Dimensional Rotating Mirror LiDAR Sales Market Share by Region in 2024

Figure 68. Asia Pacific One-Dimensional Rotating Mirror LiDAR Market Size by Region

in 2024

Figure 69. China One-Dimensional Rotating Mirror LiDAR Sales and Growth Rate (2020-2025) & (K Units)

Figure 70. China One-Dimensional Rotating Mirror LiDAR Market Size and Growth Rate (2020-2025) & (M USD)

Figure 71. Japan One-Dimensional Rotating Mirror LiDAR Sales and Growth Rate (2020-2025) & (K Units)

Figure 72. Japan One-Dimensional Rotating Mirror LiDAR Market Size and Growth Rate (2020-2025) & (M USD)

Figure 73. South Korea One-Dimensional Rotating Mirror LiDAR Sales and Growth Rate (2020-2025) & (K Units)

Figure 74. South Korea One-Dimensional Rotating Mirror LiDAR Market Size and Growth Rate (2020-2025) & (M USD)

Figure 75. India One-Dimensional Rotating Mirror LiDAR Sales and Growth Rate (2020-2025) & (K Units)

Figure 76. India One-Dimensional Rotating Mirror LiDAR Market Size and Growth Rate (2020-2025) & (M USD)

Figure 77. Southeast Asia One-Dimensional Rotating Mirror LiDAR Sales and Growth Rate (2020-2025) & (K Units)

Figure 78. Southeast Asia One-Dimensional Rotating Mirror LiDAR Market Size and Growth Rate (2020-2025) & (M USD)

Figure 79. South America One-Dimensional Rotating Mirror LiDAR Sales and Growth Rate (K Units)

Figure 80. South America One-Dimensional Rotating Mirror LiDAR Sales Market Share by Country in 2024

Figure 81. South America One-Dimensional Rotating Mirror LiDAR Market Size and Growth Rate (M USD)

Figure 82. South America One-Dimensional Rotating Mirror LiDAR Market Size by Country in 2024

Figure 83. Brazil One-Dimensional Rotating Mirror LiDAR Sales and Growth Rate (2020-2025) & (K Units)

Figure 84. Brazil One-Dimensional Rotating Mirror LiDAR Market Size and Growth Rate (2020-2025) & (M USD)

Figure 85. Argentina One-Dimensional Rotating Mirror LiDAR Sales and Growth Rate (2020-2025) & (K Units)

Figure 86. Argentina One-Dimensional Rotating Mirror LiDAR Market Size and Growth Rate (2020-2025) & (M USD)

Figure 87. Columbia One-Dimensional Rotating Mirror LiDAR Sales and Growth Rate (2020-2025) & (K Units)

Figure 88. Columbia One-Dimensional Rotating Mirror LiDAR Market Size and Growth Rate (2020-2025) & (M USD)

Figure 89. Middle East and Africa One-Dimensional Rotating Mirror LiDAR Sales and Growth Rate (K Units)

Figure 90. Middle East and Africa One-Dimensional Rotating Mirror LiDAR Sales Market Share by Region in 2024

Figure 91. Middle East and Africa One-Dimensional Rotating Mirror LiDAR Market Size and Growth Rate (M USD)

Figure 92. Middle East and Africa One-Dimensional Rotating Mirror LiDAR Market Size by Region in 2024

Figure 93. Saudi Arabia One-Dimensional Rotating Mirror LiDAR Sales and Growth Rate (2020-2025) & (K Units)

Figure 94. Saudi Arabia One-Dimensional Rotating Mirror LiDAR Market Size and Growth Rate (2020-2025) & (M USD)

Figure 95. UAE One-Dimensional Rotating Mirror LiDAR Sales and Growth Rate (2020-2025) & (K Units)

Figure 96. UAE One-Dimensional Rotating Mirror LiDAR Market Size and Growth Rate (2020-2025) & (M USD)

Figure 97. Egypt One-Dimensional Rotating Mirror LiDAR Sales and Growth Rate (2020-2025) & (K Units)

Figure 98. Egypt One-Dimensional Rotating Mirror LiDAR Market Size and Growth Rate (2020-2025) & (M USD)

Figure 99. Nigeria One-Dimensional Rotating Mirror LiDAR Sales and Growth Rate (2020-2025) & (K Units)

Figure 100. Nigeria One-Dimensional Rotating Mirror LiDAR Market Size and Growth Rate (2020-2025) & (M USD)

Figure 101. South Africa One-Dimensional Rotating Mirror LiDAR Sales and Growth Rate (2020-2025) & (K Units)

Figure 102. South Africa One-Dimensional Rotating Mirror LiDAR Market Size and Growth Rate (2020-2025) & (M USD)

Figure 103. Global One-Dimensional Rotating Mirror LiDAR Production Market Share by Region (2020-2025)

Figure 104. North America One-Dimensional Rotating Mirror LiDAR Production (K Units) Growth Rate (2020-2025)

Figure 105. Europe One-Dimensional Rotating Mirror LiDAR Production (K Units) Growth Rate (2020-2025)

Figure 106. Japan One-Dimensional Rotating Mirror LiDAR Production (K Units) Growth Rate (2020-2025)

Figure 107. China One-Dimensional Rotating Mirror LiDAR Production (K Units) Growth

Rate (2020-2025)

Figure 108. Global One-Dimensional Rotating Mirror LiDAR Sales Forecast by Volume (2020-2035) & (K Units)

Figure 109. Global One-Dimensional Rotating Mirror LiDAR Market Size Forecast by Value (2020-2035) & (M USD)

Figure 110. Global One-Dimensional Rotating Mirror LiDAR Sales Market Share Forecast by Type (2026-2035)

Figure 111. Global One-Dimensional Rotating Mirror LiDAR Market Share Forecast by Type (2026-2035)

Figure 112. Global One-Dimensional Rotating Mirror LiDAR Sales Forecast by Application (2026-2035)

Figure 113. Global One-Dimensional Rotating Mirror LiDAR Market Share Forecast by Application (2026-2035)

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