

Global Long-range LiDAR Sensor 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 Long-range LiDAR Sensor competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. A long-range LiDAR sensor is a remote sensing device that uses laser light to measure distances to objects over extended ranges, typically exceeding 100 meters and sometimes reaching several hundred meters or more. These sensors emit laser pulses and detect the reflected light from surfaces to create detailed, high-resolution 3D maps of the environment. Designed for applications requiring high precision and reliability over long distances, such as autonomous vehicles, drones, robotics, and infrastructure monitoring, long-range LiDAR sensors offer enhanced detection capabilities in various lighting and weather conditions. Their ability to perceive distant objects with fine accuracy makes them essential for real-time obstacle detection, navigation, and situational awareness in complex or dynamic environments.

The global Long-range LiDAR Sensor market size was estimated at USD 1029.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 7.40% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Long-range LiDAR Sensor 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 Long-range LiDAR Sensor 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 Long-range LiDAR Sensor market.

Global Long-range LiDAR Sensor 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

Ouster

Valeo

Aeva Technologies

SICK

Leishen Intelligent Systems

LIVOX

SiLC Technologies

Benewake

Seyond

RoboSense
Bosch
Hesai Technology
Teledyne Optech
Continental
Velodyne Lidar
Blickfeld
Aurora
OLE-SYSTEMS

Market Segmentation (by Type)

Mechanical Scanning LiDAR Sensor
Solid-State LiDAR Sensor
Hybrid LiDAR Sensor

Market Segmentation (by Application)

Autonomous Vehicles
Infrastructure Monitoring
Drones
Robots
Others

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 Long-range LiDAR Sensor Market
Overview of the regional outlook of the Long-range LiDAR Sensor Market:

Customization of the Report

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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 Long-range LiDAR Sensor 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 Long-range LiDAR Sensor, 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

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Long-range LiDAR Sensor
- 1.2 Key Market Segments
 - 1.2.1 Long-range LiDAR Sensor Segment by Type
 - 1.2.2 Long-range LiDAR Sensor 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

2 LONG-RANGE LIDAR SENSOR MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Long-range LiDAR Sensor Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Long-range LiDAR Sensor Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 LONG-RANGE LIDAR SENSOR MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Long-range LiDAR Sensor Product Life Cycle
- 3.3 Global Long-range LiDAR Sensor Sales by Manufacturers (2020-2025)
- 3.4 Global Long-range LiDAR Sensor Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Long-range LiDAR Sensor Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Long-range LiDAR Sensor Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Long-range LiDAR Sensor Market Competitive Situation and Trends
 - 3.8.1 Long-range LiDAR Sensor Market Concentration Rate
 - 3.8.2 Global 5 and 10 Largest Long-range LiDAR Sensor Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 LONG-RANGE LIDAR SENSOR INDUSTRY CHAIN ANALYSIS

4.1 Long-range LiDAR Sensor 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 LONG-RANGE LIDAR SENSOR 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 Long-range LiDAR Sensor 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 Long-range LiDAR Sensor Market

5.7 ESG Ratings of Leading Companies

6 LONG-RANGE LIDAR SENSOR MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Long-range LiDAR Sensor Sales Market Share by Type (2020-2025)

6.3 Global Long-range LiDAR Sensor Market Size by Type (2020-2025)

6.4 Global Long-range LiDAR Sensor Price by Type (2020-2025)

7 LONG-RANGE LIDAR SENSOR MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Long-range LiDAR Sensor Market Sales by Application (2020-2025)
- 7.3 Global Long-range LiDAR Sensor Market Size (M USD) by Application (2020-2025)
- 7.4 Global Long-range LiDAR Sensor Sales Growth Rate by Application (2020-2025)

8 LONG-RANGE LIDAR SENSOR MARKET SALES BY REGION

- 8.1 Global Long-range LiDAR Sensor Sales by Region
 - 8.1.1 Global Long-range LiDAR Sensor Sales by Region
 - 8.1.2 Global Long-range LiDAR Sensor Sales Market Share by Region
- 8.2 Global Long-range LiDAR Sensor Market Size by Region
 - 8.2.1 Global Long-range LiDAR Sensor Market Size by Region
 - 8.2.2 Global Long-range LiDAR Sensor Market Size by Region
- 8.3 North America
 - 8.3.1 North America Long-range LiDAR Sensor Sales by Country
 - 8.3.2 North America Long-range LiDAR Sensor 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 Long-range LiDAR Sensor Sales by Country
 - 8.4.2 Europe Long-range LiDAR Sensor 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 Long-range LiDAR Sensor Sales by Region
 - 8.5.2 Asia Pacific Long-range LiDAR Sensor 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 Long-range LiDAR Sensor Sales by Country
 - 8.6.2 South America Long-range LiDAR Sensor 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 Long-range LiDAR Sensor Sales by Region
 - 8.7.2 Middle East and Africa Long-range LiDAR Sensor 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 LONG-RANGE LIDAR SENSOR MARKET PRODUCTION BY REGION

- 9.1 Global Production of Long-range LiDAR Sensor by Region(2020-2025)
- 9.2 Global Long-range LiDAR Sensor Revenue Market Share by Region (2020-2025)
- 9.3 Global Long-range LiDAR Sensor Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Long-range LiDAR Sensor Production
 - 9.4.1 North America Long-range LiDAR Sensor Production Growth Rate (2020-2025)
 - 9.4.2 North America Long-range LiDAR Sensor Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Long-range LiDAR Sensor Production
 - 9.5.1 Europe Long-range LiDAR Sensor Production Growth Rate (2020-2025)
 - 9.5.2 Europe Long-range LiDAR Sensor Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Long-range LiDAR Sensor Production (2020-2025)
 - 9.6.1 Japan Long-range LiDAR Sensor Production Growth Rate (2020-2025)
 - 9.6.2 Japan Long-range LiDAR Sensor Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Long-range LiDAR Sensor Production (2020-2025)
 - 9.7.1 China Long-range LiDAR Sensor Production Growth Rate (2020-2025)
 - 9.7.2 China Long-range LiDAR Sensor Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

- 10.1 Ouster
 - 10.1.1 Ouster Basic Information

- 10.1.2 Ouster Long-range LiDAR Sensor Product Overview
- 10.1.3 Ouster Long-range LiDAR Sensor Product Market Performance
- 10.1.4 Ouster Business Overview
- 10.1.5 Ouster SWOT Analysis
- 10.1.6 Ouster Recent Developments
- 10.2 Valeo
 - 10.2.1 Valeo Basic Information
 - 10.2.2 Valeo Long-range LiDAR Sensor Product Overview
 - 10.2.3 Valeo Long-range LiDAR Sensor Product Market Performance
 - 10.2.4 Valeo Business Overview
 - 10.2.5 Valeo SWOT Analysis
 - 10.2.6 Valeo Recent Developments
- 10.3 Aeva Technologies
 - 10.3.1 Aeva Technologies Basic Information
 - 10.3.2 Aeva Technologies Long-range LiDAR Sensor Product Overview
 - 10.3.3 Aeva Technologies Long-range LiDAR Sensor Product Market Performance
 - 10.3.4 Aeva Technologies Business Overview
 - 10.3.5 Aeva Technologies SWOT Analysis
 - 10.3.6 Aeva Technologies Recent Developments
- 10.4 SICK
 - 10.4.1 SICK Basic Information
 - 10.4.2 SICK Long-range LiDAR Sensor Product Overview
 - 10.4.3 SICK Long-range LiDAR Sensor Product Market Performance
 - 10.4.4 SICK Business Overview
 - 10.4.5 SICK Recent Developments
- 10.5 Leishen Intelligent Systems
 - 10.5.1 Leishen Intelligent Systems Basic Information
 - 10.5.2 Leishen Intelligent Systems Long-range LiDAR Sensor Product Overview
 - 10.5.3 Leishen Intelligent Systems Long-range LiDAR Sensor Product Market Performance
 - 10.5.4 Leishen Intelligent Systems Business Overview
 - 10.5.5 Leishen Intelligent Systems Recent Developments
- 10.6 LIXIAO
 - 10.6.1 LIXIAO Basic Information
 - 10.6.2 LIXIAO Long-range LiDAR Sensor Product Overview
 - 10.6.3 LIXIAO Long-range LiDAR Sensor Product Market Performance
 - 10.6.4 LIXIAO Business Overview
 - 10.6.5 LIXIAO Recent Developments
- 10.7 SiLC Technologies

- 10.7.1 SiLC Technologies Basic Information
- 10.7.2 SiLC Technologies Long-range LiDAR Sensor Product Overview
- 10.7.3 SiLC Technologies Long-range LiDAR Sensor Product Market Performance
- 10.7.4 SiLC Technologies Business Overview
- 10.7.5 SiLC Technologies Recent Developments
- 10.8 Benewake
 - 10.8.1 Benewake Basic Information
 - 10.8.2 Benewake Long-range LiDAR Sensor Product Overview
 - 10.8.3 Benewake Long-range LiDAR Sensor Product Market Performance
 - 10.8.4 Benewake Business Overview
 - 10.8.5 Benewake Recent Developments
- 10.9 Seyond
 - 10.9.1 Seyond Basic Information
 - 10.9.2 Seyond Long-range LiDAR Sensor Product Overview
 - 10.9.3 Seyond Long-range LiDAR Sensor Product Market Performance
 - 10.9.4 Seyond Business Overview
 - 10.9.5 Seyond Recent Developments
- 10.10 RoboSense
 - 10.10.1 RoboSense Basic Information
 - 10.10.2 RoboSense Long-range LiDAR Sensor Product Overview
 - 10.10.3 RoboSense Long-range LiDAR Sensor Product Market Performance
 - 10.10.4 RoboSense Business Overview
 - 10.10.5 RoboSense Recent Developments
- 10.11 Bosch
 - 10.11.1 Bosch Basic Information
 - 10.11.2 Bosch Long-range LiDAR Sensor Product Overview
 - 10.11.3 Bosch Long-range LiDAR Sensor Product Market Performance
 - 10.11.4 Bosch Business Overview
 - 10.11.5 Bosch Recent Developments
- 10.12 Hesai Technology
 - 10.12.1 Hesai Technology Basic Information
 - 10.12.2 Hesai Technology Long-range LiDAR Sensor Product Overview
 - 10.12.3 Hesai Technology Long-range LiDAR Sensor Product Market Performance
 - 10.12.4 Hesai Technology Business Overview
 - 10.12.5 Hesai Technology Recent Developments
- 10.13 Teledyne Optech
 - 10.13.1 Teledyne Optech Basic Information
 - 10.13.2 Teledyne Optech Long-range LiDAR Sensor Product Overview
 - 10.13.3 Teledyne Optech Long-range LiDAR Sensor Product Market Performance

- 10.13.4 Teledyne Optech Business Overview
- 10.13.5 Teledyne Optech Recent Developments
- 10.14 Continental
 - 10.14.1 Continental Basic Information
 - 10.14.2 Continental Long-range LiDAR Sensor Product Overview
 - 10.14.3 Continental Long-range LiDAR Sensor Product Market Performance
 - 10.14.4 Continental Business Overview
 - 10.14.5 Continental Recent Developments
- 10.15 Velodyne Lidar
 - 10.15.1 Velodyne Lidar Basic Information
 - 10.15.2 Velodyne Lidar Long-range LiDAR Sensor Product Overview
 - 10.15.3 Velodyne Lidar Long-range LiDAR Sensor Product Market Performance
 - 10.15.4 Velodyne Lidar Business Overview
 - 10.15.5 Velodyne Lidar Recent Developments
- 10.16 Blickfeld
 - 10.16.1 Blickfeld Basic Information
 - 10.16.2 Blickfeld Long-range LiDAR Sensor Product Overview
 - 10.16.3 Blickfeld Long-range LiDAR Sensor Product Market Performance
 - 10.16.4 Blickfeld Business Overview
 - 10.16.5 Blickfeld Recent Developments
- 10.17 Aurora
 - 10.17.1 Aurora Basic Information
 - 10.17.2 Aurora Long-range LiDAR Sensor Product Overview
 - 10.17.3 Aurora Long-range LiDAR Sensor Product Market Performance
 - 10.17.4 Aurora Business Overview
 - 10.17.5 Aurora Recent Developments
- 10.18 OLE-SYSTEMS
 - 10.18.1 OLE-SYSTEMS Basic Information
 - 10.18.2 OLE-SYSTEMS Long-range LiDAR Sensor Product Overview
 - 10.18.3 OLE-SYSTEMS Long-range LiDAR Sensor Product Market Performance
 - 10.18.4 OLE-SYSTEMS Business Overview
 - 10.18.5 OLE-SYSTEMS Recent Developments

11 LONG-RANGE LIDAR SENSOR MARKET FORECAST BY REGION

- 11.1 Global Long-range LiDAR Sensor Market Size Forecast
- 11.2 Global Long-range LiDAR Sensor Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe Long-range LiDAR Sensor Market Size Forecast by Country

- 11.2.3 Asia Pacific Long-range LiDAR Sensor Market Size Forecast by Region
- 11.2.4 South America Long-range LiDAR Sensor Market Size Forecast by Country
- 11.2.5 Middle East and Africa Forecasted Sales of Long-range LiDAR Sensor by Country

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

- 12.1 Global Long-range LiDAR Sensor Market Forecast by Type (2026-2035)
 - 12.1.1 Global Forecasted Sales of Long-range LiDAR Sensor by Type (2026-2035)
 - 12.1.2 Global Long-range LiDAR Sensor Market Size Forecast by Type (2026-2035)
 - 12.1.3 Global Forecasted Price of Long-range LiDAR Sensor by Type (2026-2035)
- 12.2 Global Long-range LiDAR Sensor Market Forecast by Application (2026-2035)
 - 12.2.1 Global Long-range LiDAR Sensor Sales (K Units) Forecast by Application
 - 12.2.2 Global Long-range LiDAR Sensor 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 Long-range LiDAR Sensor Market Size by Type (M USD)

Table 4. Global Long-range LiDAR Sensor Market Size by Application

Table 5. Long-range LiDAR Sensor Market Size Comparison by Region (M USD)

Table 6. Global Long-range LiDAR Sensor Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global Long-range LiDAR Sensor Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Long-range LiDAR Sensor Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Long-range LiDAR Sensor Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Long-range LiDAR Sensor as of 2025)

Table 11. Global Market Long-range LiDAR Sensor Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Long-range LiDAR Sensor Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Long-range LiDAR Sensor Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Long-range LiDAR Sensor Sales by Type (K Units)

Table 27. Global Long-range LiDAR Sensor Market Size by Type (M USD)

- Table 28. Global Long-range LiDAR Sensor Sales (K Units) by Type (2020-2025)
- Table 29. Global Long-range LiDAR Sensor Sales Market Share by Type (2020-2025)
- Table 30. Global Long-range LiDAR Sensor Market Size (M USD) by Type (2020-2025)
- Table 31. Global Long-range LiDAR Sensor Market Share by Type (2020-2025)
- Table 32. Global Long-range LiDAR Sensor Price (USD/Unit) by Type (2020-2025)
- Table 33. Global Long-range LiDAR Sensor Sales (K Units) by Application
- Table 34. Global Long-range LiDAR Sensor Market Size by Application
- Table 35. Global Long-range LiDAR Sensor Sales by Application (2020-2025) & (K Units)
- Table 36. Global Long-range LiDAR Sensor Sales Market Share by Application (2020-2025)
- Table 37. Global Long-range LiDAR Sensor Market Size by Application (2020-2025) & (M USD)
- Table 38. Global Long-range LiDAR Sensor Market Share by Application (2020-2025)
- Table 39. Global Long-range LiDAR Sensor Sales Growth Rate by Application (2020-2025)
- Table 40. Global Long-range LiDAR Sensor Sales by Region (2020-2025) & (K Units)
- Table 41. Global Long-range LiDAR Sensor Sales Market Share by Region (2020-2025)
- Table 42. Global Long-range LiDAR Sensor Market Size by Region (2020-2025) & (M USD)
- Table 43. Global Long-range LiDAR Sensor Market Size by Region (2020-2025)
- Table 44. North America Long-range LiDAR Sensor Sales by Country (2020-2025) & (K Units)
- Table 45. North America Long-range LiDAR Sensor Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe Long-range LiDAR Sensor Sales by Country (2020-2025) & (K Units)
- Table 47. Europe Long-range LiDAR Sensor Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific Long-range LiDAR Sensor Sales by Region (2020-2025) & (K Units)
- Table 49. Asia Pacific Long-range LiDAR Sensor Market Size by Region (2020-2025) & (M USD)
- Table 50. South America Long-range LiDAR Sensor Sales by Country (2020-2025) & (K Units)
- Table 51. South America Long-range LiDAR Sensor Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa Long-range LiDAR Sensor Sales by Region (2020-2025) & (K Units)
- Table 53. Middle East and Africa Long-range LiDAR Sensor Market Size by Region

(2020-2025) & (M USD)

Table 54. Global Long-range LiDAR Sensor Production (K Units) by Region(2020-2025)

Table 55. Global Long-range LiDAR Sensor Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Long-range LiDAR Sensor Revenue Market Share by Region (2020-2025)

Table 57. Global Long-range LiDAR Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Long-range LiDAR Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Long-range LiDAR Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Long-range LiDAR Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Long-range LiDAR Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. Ouster Basic Information

Table 63. Ouster Long-range LiDAR Sensor Product Overview

Table 64. Ouster Long-range LiDAR Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Ouster Business Overview

Table 66. Ouster SWOT Analysis

Table 67. Ouster Recent Developments

Table 68. Valeo Basic Information

Table 69. Valeo Long-range LiDAR Sensor Product Overview

Table 70. Valeo Long-range LiDAR Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. Valeo Business Overview

Table 72. Valeo SWOT Analysis

Table 73. Valeo Recent Developments

Table 74. Aeva Technologies Basic Information

Table 75. Aeva Technologies Long-range LiDAR Sensor Product Overview

Table 76. Aeva Technologies Long-range LiDAR Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. Aeva Technologies Business Overview

Table 78. Aeva Technologies SWOT Analysis

Table 79. Aeva Technologies Recent Developments

Table 80. SICK Basic Information

Table 81. SICK Long-range LiDAR Sensor Product Overview

Table 82. SICK Long-range LiDAR Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 83. SICK Business Overview

Table 84. SICK Recent Developments

Table 85. Leishen Intelligent Systems Basic Information

Table 86. Leishen Intelligent Systems Long-range LiDAR Sensor Product Overview

Table 87. Leishen Intelligent Systems Long-range LiDAR Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 88. Leishen Intelligent Systems Business Overview

Table 89. Leishen Intelligent Systems Recent Developments

Table 90. LIVOX Basic Information

Table 91. LIVOX Long-range LiDAR Sensor Product Overview

Table 92. LIVOX Long-range LiDAR Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 93. LIVOX Business Overview

Table 94. LIVOX Recent Developments

Table 95. SiLC Technologies Basic Information

Table 96. SiLC Technologies Long-range LiDAR Sensor Product Overview

Table 97. SiLC Technologies Long-range LiDAR Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 98. SiLC Technologies Business Overview

Table 99. SiLC Technologies Recent Developments

Table 100. Benewake Basic Information

Table 101. Benewake Long-range LiDAR Sensor Product Overview

Table 102. Benewake Long-range LiDAR Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 103. Benewake Business Overview

Table 104. Benewake Recent Developments

Table 105. Seyond Basic Information

Table 106. Seyond Long-range LiDAR Sensor Product Overview

Table 107. Seyond Long-range LiDAR Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 108. Seyond Business Overview

Table 109. Seyond Recent Developments

Table 110. RoboSense Basic Information

Table 111. RoboSense Long-range LiDAR Sensor Product Overview

Table 112. RoboSense Long-range LiDAR Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 113. RoboSense Business Overview

- Table 114. RoboSense Recent Developments
- Table 115. Bosch Basic Information
- Table 116. Bosch Long-range LiDAR Sensor Product Overview
- Table 117. Bosch Long-range LiDAR Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 118. Bosch Business Overview
- Table 119. Bosch Recent Developments
- Table 120. Hesai Technology Basic Information
- Table 121. Hesai Technology Long-range LiDAR Sensor Product Overview
- Table 122. Hesai Technology Long-range LiDAR Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 123. Hesai Technology Business Overview
- Table 124. Hesai Technology Recent Developments
- Table 125. Teledyne Optech Basic Information
- Table 126. Teledyne Optech Long-range LiDAR Sensor Product Overview
- Table 127. Teledyne Optech Long-range LiDAR Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 128. Teledyne Optech Business Overview
- Table 129. Teledyne Optech Recent Developments
- Table 130. Continental Basic Information
- Table 131. Continental Long-range LiDAR Sensor Product Overview
- Table 132. Continental Long-range LiDAR Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 133. Continental Business Overview
- Table 134. Continental Recent Developments
- Table 135. Velodyne Lidar Basic Information
- Table 136. Velodyne Lidar Long-range LiDAR Sensor Product Overview
- Table 137. Velodyne Lidar Long-range LiDAR Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 138. Velodyne Lidar Business Overview
- Table 139. Velodyne Lidar Recent Developments
- Table 140. Blickfeld Basic Information
- Table 141. Blickfeld Long-range LiDAR Sensor Product Overview
- Table 142. Blickfeld Long-range LiDAR Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 143. Blickfeld Business Overview
- Table 144. Blickfeld Recent Developments
- Table 145. Aurora Basic Information
- Table 146. Aurora Long-range LiDAR Sensor Product Overview

- Table 147. Aurora Long-range LiDAR Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 148. Aurora Business Overview
- Table 149. Aurora Recent Developments
- Table 150. OLE-SYSTEMS Basic Information
- Table 151. OLE-SYSTEMS Long-range LiDAR Sensor Product Overview
- Table 152. OLE-SYSTEMS Long-range LiDAR Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 153. OLE-SYSTEMS Business Overview
- Table 154. OLE-SYSTEMS Recent Developments
- Table 155. Global Long-range LiDAR Sensor Sales Forecast by Region (2026-2035) & (K Units)
- Table 156. Global Long-range LiDAR Sensor Market Size Forecast by Region (2026-2035) & (M USD)
- Table 157. North America Long-range LiDAR Sensor Sales Forecast by Country (2026-2035) & (K Units)
- Table 158. North America Long-range LiDAR Sensor Market Size Forecast by Country (2026-2035) & (M USD)
- Table 159. Europe Long-range LiDAR Sensor Sales Forecast by Country (2026-2035) & (K Units)
- Table 160. Europe Long-range LiDAR Sensor Market Size Forecast by Country (2026-2035) & (M USD)
- Table 161. Asia Pacific Long-range LiDAR Sensor Sales Forecast by Region (2026-2035) & (K Units)
- Table 162. Asia Pacific Long-range LiDAR Sensor Market Size Forecast by Region (2026-2035) & (M USD)
- Table 163. South America Long-range LiDAR Sensor Sales Forecast by Country (2026-2035) & (K Units)
- Table 164. South America Long-range LiDAR Sensor Market Size Forecast by Country (2026-2035) & (M USD)
- Table 165. Middle East and Africa Long-range LiDAR Sensor Sales Forecast by Country (2026-2035) & (Units)
- Table 166. Middle East and Africa Long-range LiDAR Sensor Market Size Forecast by Country (2026-2035) & (M USD)
- Table 167. Global Long-range LiDAR Sensor Sales Forecast by Type (2026-2035) & (K Units)
- Table 168. Global Long-range LiDAR Sensor Market Size Forecast by Type (2026-2035) & (M USD)
- Table 169. Global Long-range LiDAR Sensor Price Forecast by Type (2026-2035) &

(USD/Unit)

Table 170. Global Long-range LiDAR Sensor Sales (K Units) Forecast by Application (2026-2035)

Table 171. Global Long-range LiDAR Sensor Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Long-range LiDAR Sensor
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Long-range LiDAR Sensor Market Size (M USD), 2025-2035
- Figure 5. Global Long-range LiDAR Sensor Market Size (M USD) (2020-2035)
- Figure 6. Global Long-range LiDAR Sensor Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Long-range LiDAR Sensor Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Long-range LiDAR Sensor Product Life Cycle
- Figure 13. Long-range LiDAR Sensor Sales Share by Manufacturers in 2025
- Figure 14. Global Long-range LiDAR Sensor Revenue Share by Manufacturers in 2025
- Figure 15. Long-range LiDAR Sensor Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Long-range LiDAR Sensor Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Long-range LiDAR Sensor Revenue in 2025
- Figure 18. Industry Chain Map of Long-range LiDAR Sensor
- Figure 19. Global Long-range LiDAR Sensor Market PEST Analysis
- Figure 20. Global Long-range LiDAR Sensor Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Long-range LiDAR Sensor Market Share by Type
- Figure 27. Sales Market Share of Long-range LiDAR Sensor by Type (2020-2025)
- Figure 28. Sales Market Share of Long-range LiDAR Sensor by Type in 2025
- Figure 29. Market Share of Long-range LiDAR Sensor by Type (2020-2025)
- Figure 30. Market Share of Long-range LiDAR Sensor by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Long-range LiDAR Sensor Market Share by Application

Figure 33. Global Long-range LiDAR Sensor Sales Market Share by Application (2020-2025)

Figure 34. Global Long-range LiDAR Sensor Sales Market Share by Application in 2025

Figure 35. Global Long-range LiDAR Sensor Market Share by Application (2020-2025)

Figure 36. Global Long-range LiDAR Sensor Market Share by Application in 2025

Figure 37. Global Long-range LiDAR Sensor Sales Growth Rate by Application (2020-2025)

Figure 38. Global Long-range LiDAR Sensor Sales Market Share by Region (2020-2025)

Figure 39. Global Long-range LiDAR Sensor Market Size by Region (2020-2025)

Figure 40. North America Long-range LiDAR Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Long-range LiDAR Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Long-range LiDAR Sensor Sales Market Share by Country in 2024

Figure 43. North America Long-range LiDAR Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Long-range LiDAR Sensor Market Size by Country in 2024

Figure 45. U.S. Long-range LiDAR Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Long-range LiDAR Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Long-range LiDAR Sensor Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Long-range LiDAR Sensor Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Long-range LiDAR Sensor Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Long-range LiDAR Sensor Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Long-range LiDAR Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Long-range LiDAR Sensor Sales Market Share by Country in 2024

Figure 53. Europe Long-range LiDAR Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Long-range LiDAR Sensor Market Size by Country in 2024

Figure 55. Germany Long-range LiDAR Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Long-range LiDAR Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Long-range LiDAR Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Long-range LiDAR Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Long-range LiDAR Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Long-range LiDAR Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Long-range LiDAR Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Long-range LiDAR Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Long-range LiDAR Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Long-range LiDAR Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Long-range LiDAR Sensor Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Long-range LiDAR Sensor Sales Market Share by Region in 2024

Figure 67. Asia Pacific Long-range LiDAR Sensor Market Size by Region in 2024

Figure 68. China Long-range LiDAR Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Long-range LiDAR Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Long-range LiDAR Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Long-range LiDAR Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Long-range LiDAR Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Long-range LiDAR Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Long-range LiDAR Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Long-range LiDAR Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Long-range LiDAR Sensor Sales and Growth Rate

(2020-2025) & (K Units)

Figure 77. Southeast Asia Long-range LiDAR Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Long-range LiDAR Sensor Sales and Growth Rate (K Units)

Figure 79. South America Long-range LiDAR Sensor Sales Market Share by Country in 2024

Figure 80. South America Long-range LiDAR Sensor Market Size and Growth Rate (M USD)

Figure 81. South America Long-range LiDAR Sensor Market Size by Country in 2024

Figure 82. Brazil Long-range LiDAR Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Long-range LiDAR Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Long-range LiDAR Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Long-range LiDAR Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Long-range LiDAR Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Long-range LiDAR Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Long-range LiDAR Sensor Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Long-range LiDAR Sensor Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Long-range LiDAR Sensor Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Long-range LiDAR Sensor Market Size by Region in 2024

Figure 92. Saudi Arabia Long-range LiDAR Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Long-range LiDAR Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Long-range LiDAR Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Long-range LiDAR Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Long-range LiDAR Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Long-range LiDAR Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Long-range LiDAR Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Long-range LiDAR Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Long-range LiDAR Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Long-range LiDAR Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Long-range LiDAR Sensor Production Market Share by Region (2020-2025)

Figure 103. North America Long-range LiDAR Sensor Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Long-range LiDAR Sensor Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Long-range LiDAR Sensor Production (K Units) Growth Rate (2020-2025)

Figure 106. China Long-range LiDAR Sensor Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Long-range LiDAR Sensor Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Long-range LiDAR Sensor Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Long-range LiDAR Sensor Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Long-range LiDAR Sensor Market Share Forecast by Type (2026-2035)

Figure 111. Global Long-range LiDAR Sensor Sales Forecast by Application (2026-2035)

Figure 112. Global Long-range LiDAR Sensor Market Share Forecast by Application (2026-2035)

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