

Global Long-range LiDAR Sensor Market Growth 2025-2031

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Abstracts

The global Long-range LiDAR Sensor market size is predicted to grow from US\$ 1082 million in 2025 to US\$ 1686 million in 2031; it is expected to grow at a CAGR of 7.7% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

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.

United States market for Long-range LiDAR Sensor is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Long-range LiDAR Sensor is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Long-range LiDAR Sensor is estimated to increase from US\$ million

in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Long-range LiDAR Sensor players cover Ouster, Valeo, Aeva Technologies, SICK, Leishen Intelligent Systems, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the “Long-range LiDAR Sensor Industry Forecast” looks at past sales and reviews total world Long-range LiDAR Sensor sales in 2024, providing a comprehensive analysis by region and market sector of projected Long-range LiDAR Sensor sales for 2025 through 2031. With Long-range LiDAR Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Long-range LiDAR Sensor industry.

This Insight Report provides a comprehensive analysis of the global Long-range LiDAR Sensor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Long-range LiDAR Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Long-range LiDAR Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Long-range LiDAR Sensor and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Long-range LiDAR Sensor.

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

Segmentation by Type:

Mechanical Scanning LiDAR Sensor

Solid-State LiDAR Sensor

Hybrid LiDAR Sensor

Segmentation by Application:

Autonomous Vehicles

Infrastructure Monitoring

Drones

Robots

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global Long-range LiDAR Sensor market?

What factors are driving Long-range LiDAR Sensor market growth, globally and by region?

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

How do Long-range LiDAR Sensor market opportunities vary by end market size?

How does Long-range LiDAR Sensor break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Long-range LiDAR Sensor Annual Sales 2020-2031

- 2.1.2 World Current & Future Analysis for Long-range LiDAR Sensor by Geographic Region, 2020, 2024 & 2031

- 2.1.3 World Current & Future Analysis for Long-range LiDAR Sensor by Country/Region, 2020, 2024 & 2031

2.2 Long-range LiDAR Sensor Segment by Type

- 2.2.1 Mechanical Scanning LiDAR Sensor

- 2.2.2 Solid-State LiDAR Sensor

- 2.2.3 Hybrid LiDAR Sensor

2.3 Long-range LiDAR Sensor Sales by Type

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

- 2.3.2 Global Long-range LiDAR Sensor Revenue and Market Share by Type (2020-2025)

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

2.4 Long-range LiDAR Sensor Segment by Application

- 2.4.1 Autonomous Vehicles

- 2.4.2 Infrastructure Monitoring

- 2.4.3 Drones

- 2.4.4 Robots

- 2.4.5 Others

2.5 Long-range LiDAR Sensor Sales by Application

- 2.5.1 Global Long-range LiDAR Sensor Sale Market Share by Application (2020-2025)

- 2.5.2 Global Long-range LiDAR Sensor Revenue and Market Share by Application

(2020-2025)

2.5.3 Global Long-range LiDAR Sensor Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global Long-range LiDAR Sensor Breakdown Data by Company

3.1.1 Global Long-range LiDAR Sensor Annual Sales by Company (2020-2025)

3.1.2 Global Long-range LiDAR Sensor Sales Market Share by Company (2020-2025)

3.2 Global Long-range LiDAR Sensor Annual Revenue by Company (2020-2025)

3.2.1 Global Long-range LiDAR Sensor Revenue by Company (2020-2025)

3.2.2 Global Long-range LiDAR Sensor Revenue Market Share by Company
(2020-2025)

3.3 Global Long-range LiDAR Sensor Sale Price by Company

3.4 Key Manufacturers Long-range LiDAR Sensor Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Long-range LiDAR Sensor Product Location Distribution

3.4.2 Players Long-range LiDAR Sensor Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR LONG-RANGE LIDAR SENSOR BY GEOGRAPHIC REGION

4.1 World Historic Long-range LiDAR Sensor Market Size by Geographic Region
(2020-2025)

4.1.1 Global Long-range LiDAR Sensor Annual Sales by Geographic Region
(2020-2025)

4.1.2 Global Long-range LiDAR Sensor Annual Revenue by Geographic Region
(2020-2025)

4.2 World Historic Long-range LiDAR Sensor Market Size by Country/Region
(2020-2025)

4.2.1 Global Long-range LiDAR Sensor Annual Sales by Country/Region (2020-2025)

4.2.2 Global Long-range LiDAR Sensor Annual Revenue by Country/Region
(2020-2025)

4.3 Americas Long-range LiDAR Sensor Sales Growth

4.4 APAC Long-range LiDAR Sensor Sales Growth

4.5 Europe Long-range LiDAR Sensor Sales Growth

4.6 Middle East & Africa Long-range LiDAR Sensor Sales Growth

5 AMERICAS

5.1 Americas Long-range LiDAR Sensor Sales by Country

5.1.1 Americas Long-range LiDAR Sensor Sales by Country (2020-2025)

5.1.2 Americas Long-range LiDAR Sensor Revenue by Country (2020-2025)

5.2 Americas Long-range LiDAR Sensor Sales by Type (2020-2025)

5.3 Americas Long-range LiDAR Sensor Sales by Application (2020-2025)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Long-range LiDAR Sensor Sales by Region

6.1.1 APAC Long-range LiDAR Sensor Sales by Region (2020-2025)

6.1.2 APAC Long-range LiDAR Sensor Revenue by Region (2020-2025)

6.2 APAC Long-range LiDAR Sensor Sales by Type (2020-2025)

6.3 APAC Long-range LiDAR Sensor Sales by Application (2020-2025)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Long-range LiDAR Sensor by Country

7.1.1 Europe Long-range LiDAR Sensor Sales by Country (2020-2025)

7.1.2 Europe Long-range LiDAR Sensor Revenue by Country (2020-2025)

7.2 Europe Long-range LiDAR Sensor Sales by Type (2020-2025)

7.3 Europe Long-range LiDAR Sensor Sales by Application (2020-2025)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Long-range LiDAR Sensor by Country

8.1.1 Middle East & Africa Long-range LiDAR Sensor Sales by Country (2020-2025)

8.1.2 Middle East & Africa Long-range LiDAR Sensor Revenue by Country
(2020-2025)

8.2 Middle East & Africa Long-range LiDAR Sensor Sales by Type (2020-2025)

8.3 Middle East & Africa Long-range LiDAR Sensor Sales by Application (2020-2025)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Long-range LiDAR Sensor

10.3 Manufacturing Process Analysis of Long-range LiDAR Sensor

10.4 Industry Chain Structure of Long-range LiDAR Sensor

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Long-range LiDAR Sensor Distributors

11.3 Long-range LiDAR Sensor Customer

12 WORLD FORECAST REVIEW FOR LONG-RANGE LIDAR SENSOR BY GEOGRAPHIC REGION

- 12.1 Global Long-range LiDAR Sensor Market Size Forecast by Region
 - 12.1.1 Global Long-range LiDAR Sensor Forecast by Region (2026-2031)
 - 12.1.2 Global Long-range LiDAR Sensor Annual Revenue Forecast by Region (2026-2031)
- 12.2 Americas Forecast by Country (2026-2031)
- 12.3 APAC Forecast by Region (2026-2031)
- 12.4 Europe Forecast by Country (2026-2031)
- 12.5 Middle East & Africa Forecast by Country (2026-2031)
- 12.6 Global Long-range LiDAR Sensor Forecast by Type (2026-2031)
- 12.7 Global Long-range LiDAR Sensor Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

- 13.1 Ouster
 - 13.1.1 Ouster Company Information
 - 13.1.2 Ouster Long-range LiDAR Sensor Product Portfolios and Specifications
 - 13.1.3 Ouster Long-range LiDAR Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.1.4 Ouster Main Business Overview
 - 13.1.5 Ouster Latest Developments
- 13.2 Valeo
 - 13.2.1 Valeo Company Information
 - 13.2.2 Valeo Long-range LiDAR Sensor Product Portfolios and Specifications
 - 13.2.3 Valeo Long-range LiDAR Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.2.4 Valeo Main Business Overview
 - 13.2.5 Valeo Latest Developments
- 13.3 Aeva Technologies
 - 13.3.1 Aeva Technologies Company Information
 - 13.3.2 Aeva Technologies Long-range LiDAR Sensor Product Portfolios and Specifications
 - 13.3.3 Aeva Technologies Long-range LiDAR Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.3.4 Aeva Technologies Main Business Overview
 - 13.3.5 Aeva Technologies Latest Developments
- 13.4 SICK

- 13.4.1 SICK Company Information
- 13.4.2 SICK Long-range LiDAR Sensor Product Portfolios and Specifications
- 13.4.3 SICK Long-range LiDAR Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.4.4 SICK Main Business Overview
- 13.4.5 SICK Latest Developments
- 13.5 Leishen Intelligent Systems
 - 13.5.1 Leishen Intelligent Systems Company Information
 - 13.5.2 Leishen Intelligent Systems Long-range LiDAR Sensor Product Portfolios and Specifications
 - 13.5.3 Leishen Intelligent Systems Long-range LiDAR Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.5.4 Leishen Intelligent Systems Main Business Overview
 - 13.5.5 Leishen Intelligent Systems Latest Developments
- 13.6 LIVOX
 - 13.6.1 LIVOX Company Information
 - 13.6.2 LIVOX Long-range LiDAR Sensor Product Portfolios and Specifications
 - 13.6.3 LIVOX Long-range LiDAR Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.6.4 LIVOX Main Business Overview
 - 13.6.5 LIVOX Latest Developments
- 13.7 SiLC Technologies
 - 13.7.1 SiLC Technologies Company Information
 - 13.7.2 SiLC Technologies Long-range LiDAR Sensor Product Portfolios and Specifications
 - 13.7.3 SiLC Technologies Long-range LiDAR Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.7.4 SiLC Technologies Main Business Overview
 - 13.7.5 SiLC Technologies Latest Developments
- 13.8 Benewake
 - 13.8.1 Benewake Company Information
 - 13.8.2 Benewake Long-range LiDAR Sensor Product Portfolios and Specifications
 - 13.8.3 Benewake Long-range LiDAR Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.8.4 Benewake Main Business Overview
 - 13.8.5 Benewake Latest Developments
- 13.9 Seyond
 - 13.9.1 Seyond Company Information
 - 13.9.2 Seyond Long-range LiDAR Sensor Product Portfolios and Specifications

13.9.3 Seyond Long-range LiDAR Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

13.9.4 Seyond Main Business Overview

13.9.5 Seyond Latest Developments

13.10 RoboSense

13.10.1 RoboSense Company Information

13.10.2 RoboSense Long-range LiDAR Sensor Product Portfolios and Specifications

13.10.3 RoboSense Long-range LiDAR Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

13.10.4 RoboSense Main Business Overview

13.10.5 RoboSense Latest Developments

13.11 Bosch

13.11.1 Bosch Company Information

13.11.2 Bosch Long-range LiDAR Sensor Product Portfolios and Specifications

13.11.3 Bosch Long-range LiDAR Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

13.11.4 Bosch Main Business Overview

13.11.5 Bosch Latest Developments

13.12 Hesai Technology

13.12.1 Hesai Technology Company Information

13.12.2 Hesai Technology Long-range LiDAR Sensor Product Portfolios and Specifications

13.12.3 Hesai Technology Long-range LiDAR Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

13.12.4 Hesai Technology Main Business Overview

13.12.5 Hesai Technology Latest Developments

13.13 Teledyne Optech

13.13.1 Teledyne Optech Company Information

13.13.2 Teledyne Optech Long-range LiDAR Sensor Product Portfolios and Specifications

13.13.3 Teledyne Optech Long-range LiDAR Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

13.13.4 Teledyne Optech Main Business Overview

13.13.5 Teledyne Optech Latest Developments

13.14 Continental

13.14.1 Continental Company Information

13.14.2 Continental Long-range LiDAR Sensor Product Portfolios and Specifications

13.14.3 Continental Long-range LiDAR Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

- 13.14.4 Continental Main Business Overview
- 13.14.5 Continental Latest Developments
- 13.15 Velodyne Lidar
 - 13.15.1 Velodyne Lidar Company Information
 - 13.15.2 Velodyne Lidar Long-range LiDAR Sensor Product Portfolios and Specifications
 - 13.15.3 Velodyne Lidar Long-range LiDAR Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.15.4 Velodyne Lidar Main Business Overview
 - 13.15.5 Velodyne Lidar Latest Developments
- 13.16 Blickfeld
 - 13.16.1 Blickfeld Company Information
 - 13.16.2 Blickfeld Long-range LiDAR Sensor Product Portfolios and Specifications
 - 13.16.3 Blickfeld Long-range LiDAR Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.16.4 Blickfeld Main Business Overview
 - 13.16.5 Blickfeld Latest Developments
- 13.17 Aurora
 - 13.17.1 Aurora Company Information
 - 13.17.2 Aurora Long-range LiDAR Sensor Product Portfolios and Specifications
 - 13.17.3 Aurora Long-range LiDAR Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.17.4 Aurora Main Business Overview
 - 13.17.5 Aurora Latest Developments
- 13.18 OLE-SYSTEMS
 - 13.18.1 OLE-SYSTEMS Company Information
 - 13.18.2 OLE-SYSTEMS Long-range LiDAR Sensor Product Portfolios and Specifications
 - 13.18.3 OLE-SYSTEMS Long-range LiDAR Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.18.4 OLE-SYSTEMS Main Business Overview
 - 13.18.5 OLE-SYSTEMS Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Long-range LiDAR Sensor Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Table 2. Long-range LiDAR Sensor Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)
- Table 3. Major Players of Mechanical Scanning LiDAR Sensor
- Table 4. Major Players of Solid-State LiDAR Sensor
- Table 5. Major Players of Hybrid LiDAR Sensor
- Table 6. Global Long-range LiDAR Sensor Sales by Type (2020-2025) & (K Units)
- Table 7. Global Long-range LiDAR Sensor Sales Market Share by Type (2020-2025)
- Table 8. Global Long-range LiDAR Sensor Revenue by Type (2020-2025) & (\$ million)
- Table 9. Global Long-range LiDAR Sensor Revenue Market Share by Type (2020-2025)
- Table 10. Global Long-range LiDAR Sensor Sale Price by Type (2020-2025) & (US\$/Unit)
- Table 11. Global Long-range LiDAR Sensor Sale by Application (2020-2025) & (K Units)
- Table 12. Global Long-range LiDAR Sensor Sale Market Share by Application (2020-2025)
- Table 13. Global Long-range LiDAR Sensor Revenue by Application (2020-2025) & (\$ million)
- Table 14. Global Long-range LiDAR Sensor Revenue Market Share by Application (2020-2025)
- Table 15. Global Long-range LiDAR Sensor Sale Price by Application (2020-2025) & (US\$/Unit)
- Table 16. Global Long-range LiDAR Sensor Sales by Company (2020-2025) & (K Units)
- Table 17. Global Long-range LiDAR Sensor Sales Market Share by Company (2020-2025)
- Table 18. Global Long-range LiDAR Sensor Revenue by Company (2020-2025) & (\$ millions)
- Table 19. Global Long-range LiDAR Sensor Revenue Market Share by Company (2020-2025)
- Table 20. Global Long-range LiDAR Sensor Sale Price by Company (2020-2025) & (US\$/Unit)
- Table 21. Key Manufacturers Long-range LiDAR Sensor Producing Area Distribution and Sales Area
- Table 22. Players Long-range LiDAR Sensor Products Offered
- Table 23. Long-range LiDAR Sensor Concentration Ratio (CR3, CR5 and CR10) &

(2023-2025)

Table 24. New Products and Potential Entrants

Table 25. Market M&A Activity & Strategy

Table 26. Global Long-range LiDAR Sensor Sales by Geographic Region (2020-2025) & (K Units)

Table 27. Global Long-range LiDAR Sensor Sales Market Share Geographic Region (2020-2025)

Table 28. Global Long-range LiDAR Sensor Revenue by Geographic Region (2020-2025) & (\$ millions)

Table 29. Global Long-range LiDAR Sensor Revenue Market Share by Geographic Region (2020-2025)

Table 30. Global Long-range LiDAR Sensor Sales by Country/Region (2020-2025) & (K Units)

Table 31. Global Long-range LiDAR Sensor Sales Market Share by Country/Region (2020-2025)

Table 32. Global Long-range LiDAR Sensor Revenue by Country/Region (2020-2025) & (\$ millions)

Table 33. Global Long-range LiDAR Sensor Revenue Market Share by Country/Region (2020-2025)

Table 34. Americas Long-range LiDAR Sensor Sales by Country (2020-2025) & (K Units)

Table 35. Americas Long-range LiDAR Sensor Sales Market Share by Country (2020-2025)

Table 36. Americas Long-range LiDAR Sensor Revenue by Country (2020-2025) & (\$ millions)

Table 37. Americas Long-range LiDAR Sensor Sales by Type (2020-2025) & (K Units)

Table 38. Americas Long-range LiDAR Sensor Sales by Application (2020-2025) & (K Units)

Table 39. APAC Long-range LiDAR Sensor Sales by Region (2020-2025) & (K Units)

Table 40. APAC Long-range LiDAR Sensor Sales Market Share by Region (2020-2025)

Table 41. APAC Long-range LiDAR Sensor Revenue by Region (2020-2025) & (\$ millions)

Table 42. APAC Long-range LiDAR Sensor Sales by Type (2020-2025) & (K Units)

Table 43. APAC Long-range LiDAR Sensor Sales by Application (2020-2025) & (K Units)

Table 44. Europe Long-range LiDAR Sensor Sales by Country (2020-2025) & (K Units)

Table 45. Europe Long-range LiDAR Sensor Revenue by Country (2020-2025) & (\$ millions)

Table 46. Europe Long-range LiDAR Sensor Sales by Type (2020-2025) & (K Units)

Table 47. Europe Long-range LiDAR Sensor Sales by Application (2020-2025) & (K Units)

Table 48. Middle East & Africa Long-range LiDAR Sensor Sales by Country (2020-2025) & (K Units)

Table 49. Middle East & Africa Long-range LiDAR Sensor Revenue Market Share by Country (2020-2025)

Table 50. Middle East & Africa Long-range LiDAR Sensor Sales by Type (2020-2025) & (K Units)

Table 51. Middle East & Africa Long-range LiDAR Sensor Sales by Application (2020-2025) & (K Units)

Table 52. Key Market Drivers & Growth Opportunities of Long-range LiDAR Sensor

Table 53. Key Market Challenges & Risks of Long-range LiDAR Sensor

Table 54. Key Industry Trends of Long-range LiDAR Sensor

Table 55. Long-range LiDAR Sensor Raw Material

Table 56. Key Suppliers of Raw Materials

Table 57. Long-range LiDAR Sensor Distributors List

Table 58. Long-range LiDAR Sensor Customer List

Table 59. Global Long-range LiDAR Sensor Sales Forecast by Region (2026-2031) & (K Units)

Table 60. Global Long-range LiDAR Sensor Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 61. Americas Long-range LiDAR Sensor Sales Forecast by Country (2026-2031) & (K Units)

Table 62. Americas Long-range LiDAR Sensor Annual Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 63. APAC Long-range LiDAR Sensor Sales Forecast by Region (2026-2031) & (K Units)

Table 64. APAC Long-range LiDAR Sensor Annual Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 65. Europe Long-range LiDAR Sensor Sales Forecast by Country (2026-2031) & (K Units)

Table 66. Europe Long-range LiDAR Sensor Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 67. Middle East & Africa Long-range LiDAR Sensor Sales Forecast by Country (2026-2031) & (K Units)

Table 68. Middle East & Africa Long-range LiDAR Sensor Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 69. Global Long-range LiDAR Sensor Sales Forecast by Type (2026-2031) & (K Units)

Table 70. Global Long-range LiDAR Sensor Revenue Forecast by Type (2026-2031) & (\$ millions)

Table 71. Global Long-range LiDAR Sensor Sales Forecast by Application (2026-2031) & (K Units)

Table 72. Global Long-range LiDAR Sensor Revenue Forecast by Application (2026-2031) & (\$ millions)

Table 73. Ouster Basic Information, Long-range LiDAR Sensor Manufacturing Base, Sales Area and Its Competitors

Table 74. Ouster Long-range LiDAR Sensor Product Portfolios and Specifications

Table 75. Ouster Long-range LiDAR Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 76. Ouster Main Business

Table 77. Ouster Latest Developments

Table 78. Valeo Basic Information, Long-range LiDAR Sensor Manufacturing Base, Sales Area and Its Competitors

Table 79. Valeo Long-range LiDAR Sensor Product Portfolios and Specifications

Table 80. Valeo Long-range LiDAR Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 81. Valeo Main Business

Table 82. Valeo Latest Developments

Table 83. Aeva Technologies Basic Information, Long-range LiDAR Sensor Manufacturing Base, Sales Area and Its Competitors

Table 84. Aeva Technologies Long-range LiDAR Sensor Product Portfolios and Specifications

Table 85. Aeva Technologies Long-range LiDAR Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 86. Aeva Technologies Main Business

Table 87. Aeva Technologies Latest Developments

Table 88. SICK Basic Information, Long-range LiDAR Sensor Manufacturing Base, Sales Area and Its Competitors

Table 89. SICK Long-range LiDAR Sensor Product Portfolios and Specifications

Table 90. SICK Long-range LiDAR Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 91. SICK Main Business

Table 92. SICK Latest Developments

Table 93. Leishen Intelligent Systems Basic Information, Long-range LiDAR Sensor Manufacturing Base, Sales Area and Its Competitors

Table 94. Leishen Intelligent Systems Long-range LiDAR Sensor Product Portfolios and Specifications

Table 95. Leishen Intelligent Systems Long-range LiDAR Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 96. Leishen Intelligent Systems Main Business

Table 97. Leishen Intelligent Systems Latest Developments

Table 98. LIVOX Basic Information, Long-range LiDAR Sensor Manufacturing Base, Sales Area and Its Competitors

Table 99. LIVOX Long-range LiDAR Sensor Product Portfolios and Specifications

Table 100. LIVOX Long-range LiDAR Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 101. LIVOX Main Business

Table 102. LIVOX Latest Developments

Table 103. SiLC Technologies Basic Information, Long-range LiDAR Sensor Manufacturing Base, Sales Area and Its Competitors

Table 104. SiLC Technologies Long-range LiDAR Sensor Product Portfolios and Specifications

Table 105. SiLC Technologies Long-range LiDAR Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 106. SiLC Technologies Main Business

Table 107. SiLC Technologies Latest Developments

Table 108. Benewake Basic Information, Long-range LiDAR Sensor Manufacturing Base, Sales Area and Its Competitors

Table 109. Benewake Long-range LiDAR Sensor Product Portfolios and Specifications

Table 110. Benewake Long-range LiDAR Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 111. Benewake Main Business

Table 112. Benewake Latest Developments

Table 113. Seyond Basic Information, Long-range LiDAR Sensor Manufacturing Base, Sales Area and Its Competitors

Table 114. Seyond Long-range LiDAR Sensor Product Portfolios and Specifications

Table 115. Seyond Long-range LiDAR Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 116. Seyond Main Business

Table 117. Seyond Latest Developments

Table 118. RoboSense Basic Information, Long-range LiDAR Sensor Manufacturing Base, Sales Area and Its Competitors

Table 119. RoboSense Long-range LiDAR Sensor Product Portfolios and Specifications

Table 120. RoboSense Long-range LiDAR Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 121. RoboSense Main Business

Table 122. RoboSense Latest Developments

Table 123. Bosch Basic Information, Long-range LiDAR Sensor Manufacturing Base, Sales Area and Its Competitors

Table 124. Bosch Long-range LiDAR Sensor Product Portfolios and Specifications

Table 125. Bosch Long-range LiDAR Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 126. Bosch Main Business

Table 127. Bosch Latest Developments

Table 128. Hesai Technology Basic Information, Long-range LiDAR Sensor Manufacturing Base, Sales Area and Its Competitors

Table 129. Hesai Technology Long-range LiDAR Sensor Product Portfolios and Specifications

Table 130. Hesai Technology Long-range LiDAR Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 131. Hesai Technology Main Business

Table 132. Hesai Technology Latest Developments

Table 133. Teledyne Optech Basic Information, Long-range LiDAR Sensor Manufacturing Base, Sales Area and Its Competitors

Table 134. Teledyne Optech Long-range LiDAR Sensor Product Portfolios and Specifications

Table 135. Teledyne Optech Long-range LiDAR Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 136. Teledyne Optech Main Business

Table 137. Teledyne Optech Latest Developments

Table 138. Continental Basic Information, Long-range LiDAR Sensor Manufacturing Base, Sales Area and Its Competitors

Table 139. Continental Long-range LiDAR Sensor Product Portfolios and Specifications

Table 140. Continental Long-range LiDAR Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 141. Continental Main Business

Table 142. Continental Latest Developments

Table 143. Velodyne Lidar Basic Information, Long-range LiDAR Sensor Manufacturing Base, Sales Area and Its Competitors

Table 144. Velodyne Lidar Long-range LiDAR Sensor Product Portfolios and Specifications

Table 145. Velodyne Lidar Long-range LiDAR Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 146. Velodyne Lidar Main Business

Table 147. Velodyne Lidar Latest Developments

Table 148. Blickfeld Basic Information, Long-range LiDAR Sensor Manufacturing Base, Sales Area and Its Competitors

Table 149. Blickfeld Long-range LiDAR Sensor Product Portfolios and Specifications

Table 150. Blickfeld Long-range LiDAR Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 151. Blickfeld Main Business

Table 152. Blickfeld Latest Developments

Table 153. Aurora Basic Information, Long-range LiDAR Sensor Manufacturing Base, Sales Area and Its Competitors

Table 154. Aurora Long-range LiDAR Sensor Product Portfolios and Specifications

Table 155. Aurora Long-range LiDAR Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 156. Aurora Main Business

Table 157. Aurora Latest Developments

Table 158. OLE-SYSTEMS Basic Information, Long-range LiDAR Sensor Manufacturing Base, Sales Area and Its Competitors

Table 159. OLE-SYSTEMS Long-range LiDAR Sensor Product Portfolios and Specifications

Table 160. OLE-SYSTEMS Long-range LiDAR Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 161. OLE-SYSTEMS Main Business

Table 162. OLE-SYSTEMS Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Long-range LiDAR Sensor
- Figure 2. Long-range LiDAR Sensor Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Long-range LiDAR Sensor Sales Growth Rate 2020-2031 (K Units)
- Figure 7. Global Long-range LiDAR Sensor Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. Long-range LiDAR Sensor Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. Long-range LiDAR Sensor Sales Market Share by Country/Region (2024)
- Figure 10. Long-range LiDAR Sensor Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of Mechanical Scanning LiDAR Sensor
- Figure 12. Product Picture of Solid-State LiDAR Sensor
- Figure 13. Product Picture of Hybrid LiDAR Sensor
- Figure 14. Global Long-range LiDAR Sensor Sales Market Share by Type in 2025
- Figure 15. Global Long-range LiDAR Sensor Revenue Market Share by Type (2020-2025)
- Figure 16. Long-range LiDAR Sensor Consumed in Autonomous Vehicles
- Figure 17. Global Long-range LiDAR Sensor Market: Autonomous Vehicles (2020-2025) & (K Units)
- Figure 18. Long-range LiDAR Sensor Consumed in Infrastructure Monitoring
- Figure 19. Global Long-range LiDAR Sensor Market: Infrastructure Monitoring (2020-2025) & (K Units)
- Figure 20. Long-range LiDAR Sensor Consumed in Drones
- Figure 21. Global Long-range LiDAR Sensor Market: Drones (2020-2025) & (K Units)
- Figure 22. Long-range LiDAR Sensor Consumed in Robots
- Figure 23. Global Long-range LiDAR Sensor Market: Robots (2020-2025) & (K Units)
- Figure 24. Long-range LiDAR Sensor Consumed in Others
- Figure 25. Global Long-range LiDAR Sensor Market: Others (2020-2025) & (K Units)
- Figure 26. Global Long-range LiDAR Sensor Sale Market Share by Application (2024)
- Figure 27. Global Long-range LiDAR Sensor Revenue Market Share by Application in 2025
- Figure 28. Long-range LiDAR Sensor Sales by Company in 2025 (K Units)

- Figure 29. Global Long-range LiDAR Sensor Sales Market Share by Company in 2025
- Figure 30. Long-range LiDAR Sensor Revenue by Company in 2025 (\$ millions)
- Figure 31. Global Long-range LiDAR Sensor Revenue Market Share by Company in 2025
- Figure 32. Global Long-range LiDAR Sensor Sales Market Share by Geographic Region (2020-2025)
- Figure 33. Global Long-range LiDAR Sensor Revenue Market Share by Geographic Region in 2025
- Figure 34. Americas Long-range LiDAR Sensor Sales 2020-2025 (K Units)
- Figure 35. Americas Long-range LiDAR Sensor Revenue 2020-2025 (\$ millions)
- Figure 36. APAC Long-range LiDAR Sensor Sales 2020-2025 (K Units)
- Figure 37. APAC Long-range LiDAR Sensor Revenue 2020-2025 (\$ millions)
- Figure 38. Europe Long-range LiDAR Sensor Sales 2020-2025 (K Units)
- Figure 39. Europe Long-range LiDAR Sensor Revenue 2020-2025 (\$ millions)
- Figure 40. Middle East & Africa Long-range LiDAR Sensor Sales 2020-2025 (K Units)
- Figure 41. Middle East & Africa Long-range LiDAR Sensor Revenue 2020-2025 (\$ millions)
- Figure 42. Americas Long-range LiDAR Sensor Sales Market Share by Country in 2025
- Figure 43. Americas Long-range LiDAR Sensor Revenue Market Share by Country (2020-2025)
- Figure 44. Americas Long-range LiDAR Sensor Sales Market Share by Type (2020-2025)
- Figure 45. Americas Long-range LiDAR Sensor Sales Market Share by Application (2020-2025)
- Figure 46. United States Long-range LiDAR Sensor Revenue Growth 2020-2025 (\$ millions)
- Figure 47. Canada Long-range LiDAR Sensor Revenue Growth 2020-2025 (\$ millions)
- Figure 48. Mexico Long-range LiDAR Sensor Revenue Growth 2020-2025 (\$ millions)
- Figure 49. Brazil Long-range LiDAR Sensor Revenue Growth 2020-2025 (\$ millions)
- Figure 50. APAC Long-range LiDAR Sensor Sales Market Share by Region in 2025
- Figure 51. APAC Long-range LiDAR Sensor Revenue Market Share by Region (2020-2025)
- Figure 52. APAC Long-range LiDAR Sensor Sales Market Share by Type (2020-2025)
- Figure 53. APAC Long-range LiDAR Sensor Sales Market Share by Application (2020-2025)
- Figure 54. China Long-range LiDAR Sensor Revenue Growth 2020-2025 (\$ millions)
- Figure 55. Japan Long-range LiDAR Sensor Revenue Growth 2020-2025 (\$ millions)
- Figure 56. South Korea Long-range LiDAR Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 57. Southeast Asia Long-range LiDAR Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 58. India Long-range LiDAR Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 59. Australia Long-range LiDAR Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 60. China Taiwan Long-range LiDAR Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 61. Europe Long-range LiDAR Sensor Sales Market Share by Country in 2025

Figure 62. Europe Long-range LiDAR Sensor Revenue Market Share by Country (2020-2025)

Figure 63. Europe Long-range LiDAR Sensor Sales Market Share by Type (2020-2025)

Figure 64. Europe Long-range LiDAR Sensor Sales Market Share by Application (2020-2025)

Figure 65. Germany Long-range LiDAR Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 66. France Long-range LiDAR Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 67. UK Long-range LiDAR Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 68. Italy Long-range LiDAR Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 69. Russia Long-range LiDAR Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 70. Middle East & Africa Long-range LiDAR Sensor Sales Market Share by Country (2020-2025)

Figure 71. Middle East & Africa Long-range LiDAR Sensor Sales Market Share by Type (2020-2025)

Figure 72. Middle East & Africa Long-range LiDAR Sensor Sales Market Share by Application (2020-2025)

Figure 73. Egypt Long-range LiDAR Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 74. South Africa Long-range LiDAR Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 75. Israel Long-range LiDAR Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 76. Turkey Long-range LiDAR Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 77. GCC Countries Long-range LiDAR Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 78. Manufacturing Cost Structure Analysis of Long-range LiDAR Sensor in 2025

Figure 79. Manufacturing Process Analysis of Long-range LiDAR Sensor

Figure 80. Industry Chain Structure of Long-range LiDAR Sensor

Figure 81. Channels of Distribution

Figure 82. Global Long-range LiDAR Sensor Sales Market Forecast by Region (2026-2031)

Figure 83. Global Long-range LiDAR Sensor Revenue Market Share Forecast by Region (2026-2031)

Figure 84. Global Long-range LiDAR Sensor Sales Market Share Forecast by Type

(2026-2031)

Figure 85. Global Long-range LiDAR Sensor Revenue Market Share Forecast by Type (2026-2031)

Figure 86. Global Long-range LiDAR Sensor Sales Market Share Forecast by Application (2026-2031)

Figure 87. Global Long-range LiDAR Sensor Revenue Market Share Forecast by Application (2026-2031)

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