

Global Wind Lidar Sensors Market Growth 2026-2032

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Abstracts

The global Wind Lidar Sensors market size is predicted to grow from US\$ million in 2025 to US\$ million in 2032; it is expected to grow at a CAGR of % from 2026 to 2032.

Wind Lidar Sensor is a remote sensing device that measures wind speed and direction using optical sensing techniques. This technology has transformed the way we monitor and analyse atmospheric conditions, delivering precise and dependable data for a wide range of applications.

Wind lidar has the ability to produce detailed measurements of wind speed and direction at various elevations, which is one of its key advantages. Wind speed detection technologies such as anemometers are confined to measuring at specified heights, whereas wind lidar can offer continuous data across the entire height of the atmosphere. This is especially useful in businesses like wind energy, where understanding wind patterns at different heights is critical for effective power generation.

Another advantage of wind lidar is that it is non-intrusive. Wind lidar can measure wind speed and direction remotely, unlike other technologies that require equipment to be placed directly in the wind flow, making it safer and easier to install and operate. This also enables observations in difficult-to-reach areas, such as offshore wind farms.

United States market for Wind Lidar Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Wind Lidar Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Wind Lidar Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Wind Lidar Sensors players cover Vaisala, ZX Lidars, Lockheed Martin, John Wood Group, HALO Photonics (Lumibird), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the “Wind Lidar Sensors Industry Forecast” looks at past sales and reviews total world Wind Lidar Sensors sales in 2025, providing a comprehensive analysis by region and market sector of projected Wind Lidar Sensors sales for 2026 through 2032. With Wind Lidar Sensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Wind Lidar Sensors industry.

This Insight Report provides a comprehensive analysis of the global Wind Lidar Sensors 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 Wind Lidar Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Wind Lidar Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Wind Lidar Sensors 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 Wind Lidar Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Wind Lidar Sensors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Nacelle-Mounted Type

Ground-Based Type

3D Scanning Type

Others

Segmentation by Application:

Wind Energy

Meteorology & Environmental

Aviation Safety

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.

Vaisala

ZX Lidars

Lockheed Martin

John Wood Group

HALO Photonics (Lumibird)

Windar Photonics

Mitsubishi Electric

Nanjing Movelaser

Qingdao Huahang Seaglet environmental technology

Qingdao Leice Transient Technology

Everise Technology

Anhui Landun Photoelectron

EMGO-TECH TECHNOLOGY

Beijing Guanxiang Optoelectronic Technology

Shenzhen Darsunlaser Tech

ZOGLAB

Beijing Metstar Radar

Key Questions Addressed in this Report

What is the 10-year outlook for the global Wind Lidar Sensors market?

What factors are driving Wind Lidar Sensors market growth, globally and by region?

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

How do Wind Lidar Sensors market opportunities vary by end market size?

How does Wind Lidar Sensors break out by Type, by Application?

The report requires updating with new data and is sent in 48 hours after order is placed.

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 Wind Lidar Sensors Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Wind Lidar Sensors by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Wind Lidar Sensors by Country/Region, 2021, 2025 & 2032

2.2 Wind Lidar Sensors Segment by Type

- 2.2.1 Nacelle-Mounted Type
- 2.2.2 Ground-Based Type
- 2.2.3 3D Scanning Type
- 2.2.4 Others
- 2.2.5 Wind Lidar Sensors Sales by Type
 - 2.2.5.1 Global Wind Lidar Sensors Sales Market Share by Type (2021-2026)
 - 2.2.5.2 Global Wind Lidar Sensors Revenue and Market Share by Type (2021-2026)
 - 2.2.5.3 Global Wind Lidar Sensors Sale Price by Type (2021-2026)

2.3 Wind Lidar Sensors Segment by Application

- 2.3.1 Wind Energy
- 2.3.2 Meteorology & Environmental
- 2.3.3 Aviation Safety
- 2.3.4 Others
- 2.3.5 Wind Lidar Sensors Sales by Application
 - 2.3.5.1 Global Wind Lidar Sensors Sale Market Share by Application (2021-2026)
 - 2.3.5.2 Global Wind Lidar Sensors Revenue and Market Share by Application (2021-2026)

2.3.5.3 Global Wind Lidar Sensors Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Wind Lidar Sensors Breakdown Data by Company

3.1.1 Global Wind Lidar Sensors Annual Sales by Company (2021-2026)

3.1.2 Global Wind Lidar Sensors Sales Market Share by Company (2021-2026)

3.2 Global Wind Lidar Sensors Annual Revenue by Company (2021-2026)

3.2.1 Global Wind Lidar Sensors Revenue by Company (2021-2026)

3.2.2 Global Wind Lidar Sensors Revenue Market Share by Company (2021-2026)

3.3 Global Wind Lidar Sensors Sale Price by Company

3.4 Key Manufacturers Wind Lidar Sensors Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Wind Lidar Sensors Product Location Distribution

3.4.2 Players Wind Lidar Sensors Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR WIND LIDAR SENSORS BY GEOGRAPHIC REGION

4.1 World Historic Wind Lidar Sensors Market Size by Geographic Region (2021-2026)

4.1.1 Global Wind Lidar Sensors Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Wind Lidar Sensors Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Wind Lidar Sensors Market Size by Country/Region (2021-2026)

4.2.1 Global Wind Lidar Sensors Annual Sales by Country/Region (2021-2026)

4.2.2 Global Wind Lidar Sensors Annual Revenue by Country/Region (2021-2026)

4.3 Americas Wind Lidar Sensors Sales Growth

4.4 APAC Wind Lidar Sensors Sales Growth

4.5 Europe Wind Lidar Sensors Sales Growth

4.6 Middle East & Africa Wind Lidar Sensors Sales Growth

5 AMERICAS

5.1 Americas Wind Lidar Sensors Sales by Country

5.1.1 Americas Wind Lidar Sensors Sales by Country (2021-2026)

- 5.1.2 Americas Wind Lidar Sensors Revenue by Country (2021-2026)
- 5.2 Americas Wind Lidar Sensors Sales by Type (2021-2026)
- 5.3 Americas Wind Lidar Sensors Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Wind Lidar Sensors Sales by Region
 - 6.1.1 APAC Wind Lidar Sensors Sales by Region (2021-2026)
 - 6.1.2 APAC Wind Lidar Sensors Revenue by Region (2021-2026)
- 6.2 APAC Wind Lidar Sensors Sales by Type (2021-2026)
- 6.3 APAC Wind Lidar Sensors Sales by Application (2021-2026)
- 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 Wind Lidar Sensors by Country
 - 7.1.1 Europe Wind Lidar Sensors Sales by Country (2021-2026)
 - 7.1.2 Europe Wind Lidar Sensors Revenue by Country (2021-2026)
- 7.2 Europe Wind Lidar Sensors Sales by Type (2021-2026)
- 7.3 Europe Wind Lidar Sensors Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Wind Lidar Sensors by Country

- 8.1.1 Middle East & Africa Wind Lidar Sensors Sales by Country (2021-2026)
- 8.1.2 Middle East & Africa Wind Lidar Sensors Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Wind Lidar Sensors Sales by Type (2021-2026)
- 8.3 Middle East & Africa Wind Lidar Sensors Sales by Application (2021-2026)
- 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 Wind Lidar Sensors
- 10.3 Manufacturing Process Analysis of Wind Lidar Sensors
- 10.4 Industry Chain Structure of Wind Lidar Sensors

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Wind Lidar Sensors Distributors
- 11.3 Wind Lidar Sensors Customer

12 WORLD FORECAST REVIEW FOR WIND LIDAR SENSORS BY GEOGRAPHIC REGION

- 12.1 Global Wind Lidar Sensors Market Size Forecast by Region
 - 12.1.1 Global Wind Lidar Sensors Forecast by Region (2027-2032)
 - 12.1.2 Global Wind Lidar Sensors Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)

- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Wind Lidar Sensors Forecast by Type (2027-2032)
- 12.7 Global Wind Lidar Sensors Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Vaisala

- 13.1.1 Vaisala Company Information
- 13.1.2 Vaisala Wind Lidar Sensors Product Portfolios and Specifications
- 13.1.3 Vaisala Wind Lidar Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.1.4 Vaisala Main Business Overview
- 13.1.5 Vaisala Latest Developments

13.2 ZX Lidars

- 13.2.1 ZX Lidars Company Information
- 13.2.2 ZX Lidars Wind Lidar Sensors Product Portfolios and Specifications
- 13.2.3 ZX Lidars Wind Lidar Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.2.4 ZX Lidars Main Business Overview
- 13.2.5 ZX Lidars Latest Developments

13.3 Lockheed Martin

- 13.3.1 Lockheed Martin Company Information
- 13.3.2 Lockheed Martin Wind Lidar Sensors Product Portfolios and Specifications
- 13.3.3 Lockheed Martin Wind Lidar Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.3.4 Lockheed Martin Main Business Overview
- 13.3.5 Lockheed Martin Latest Developments

13.4 John Wood Group

- 13.4.1 John Wood Group Company Information
- 13.4.2 John Wood Group Wind Lidar Sensors Product Portfolios and Specifications
- 13.4.3 John Wood Group Wind Lidar Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.4.4 John Wood Group Main Business Overview
- 13.4.5 John Wood Group Latest Developments

13.5 HALO Photonics (Lumibird)

- 13.5.1 HALO Photonics (Lumibird) Company Information
- 13.5.2 HALO Photonics (Lumibird) Wind Lidar Sensors Product Portfolios and Specifications

13.5.3 HALO Photonics (Lumibird) Wind Lidar Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 HALO Photonics (Lumibird) Main Business Overview

13.5.5 HALO Photonics (Lumibird) Latest Developments

13.6 Windar Photonics

13.6.1 Windar Photonics Company Information

13.6.2 Windar Photonics Wind Lidar Sensors Product Portfolios and Specifications

13.6.3 Windar Photonics Wind Lidar Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Windar Photonics Main Business Overview

13.6.5 Windar Photonics Latest Developments

13.7 Mitsubishi Electric

13.7.1 Mitsubishi Electric Company Information

13.7.2 Mitsubishi Electric Wind Lidar Sensors Product Portfolios and Specifications

13.7.3 Mitsubishi Electric Wind Lidar Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Mitsubishi Electric Main Business Overview

13.7.5 Mitsubishi Electric Latest Developments

13.8 Nanjing Movelaser

13.8.1 Nanjing Movelaser Company Information

13.8.2 Nanjing Movelaser Wind Lidar Sensors Product Portfolios and Specifications

13.8.3 Nanjing Movelaser Wind Lidar Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Nanjing Movelaser Main Business Overview

13.8.5 Nanjing Movelaser Latest Developments

13.9 Qingdao Huahang Seaglet environmental technology

13.9.1 Qingdao Huahang Seaglet environmental technology Company Information

13.9.2 Qingdao Huahang Seaglet environmental technology Wind Lidar Sensors Product Portfolios and Specifications

13.9.3 Qingdao Huahang Seaglet environmental technology Wind Lidar Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Qingdao Huahang Seaglet environmental technology Main Business Overview

13.9.5 Qingdao Huahang Seaglet environmental technology Latest Developments

13.10 Qingdao Leice Transient Technology

13.10.1 Qingdao Leice Transient Technology Company Information

13.10.2 Qingdao Leice Transient Technology Wind Lidar Sensors Product Portfolios and Specifications

13.10.3 Qingdao Leice Transient Technology Wind Lidar Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.10.4 Qingdao Leice Transient Technology Main Business Overview
- 13.10.5 Qingdao Leice Transient Technology Latest Developments
- 13.11 Everise Technology
 - 13.11.1 Everise Technology Company Information
 - 13.11.2 Everise Technology Wind Lidar Sensors Product Portfolios and Specifications
 - 13.11.3 Everise Technology Wind Lidar Sensors Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 Everise Technology Main Business Overview
 - 13.11.5 Everise Technology Latest Developments
- 13.12 Anhui Landun Photoelectron
 - 13.12.1 Anhui Landun Photoelectron Company Information
 - 13.12.2 Anhui Landun Photoelectron Wind Lidar Sensors Product Portfolios and Specifications
 - 13.12.3 Anhui Landun Photoelectron Wind Lidar Sensors Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.12.4 Anhui Landun Photoelectron Main Business Overview
 - 13.12.5 Anhui Landun Photoelectron Latest Developments
- 13.13 EMGO-TECH TECHNOLOGYGY
 - 13.13.1 EMGO-TECH TECHNOLOGYGY Company Information
 - 13.13.2 EMGO-TECH TECHNOLOGYGY Wind Lidar Sensors Product Portfolios and Specifications
 - 13.13.3 EMGO-TECH TECHNOLOGYGY Wind Lidar Sensors Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.13.4 EMGO-TECH TECHNOLOGYGY Main Business Overview
 - 13.13.5 EMGO-TECH TECHNOLOGYGY Latest Developments
- 13.14 Beijing Guanxiang Optoelectronic Technology
 - 13.14.1 Beijing Guanxiang Optoelectronic Technology Company Information
 - 13.14.2 Beijing Guanxiang Optoelectronic Technology Wind Lidar Sensors Product Portfolios and Specifications
 - 13.14.3 Beijing Guanxiang Optoelectronic Technology Wind Lidar Sensors Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.14.4 Beijing Guanxiang Optoelectronic Technology Main Business Overview
 - 13.14.5 Beijing Guanxiang Optoelectronic Technology Latest Developments
- 13.15 Shenzhen Darsunlaser Tech
 - 13.15.1 Shenzhen Darsunlaser Tech Company Information
 - 13.15.2 Shenzhen Darsunlaser Tech Wind Lidar Sensors Product Portfolios and Specifications
 - 13.15.3 Shenzhen Darsunlaser Tech Wind Lidar Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Shenzhen Darsunlaser Tech Main Business Overview

13.15.5 Shenzhen Darsunlaser Tech Latest Developments

13.16 ZOGLAB

13.16.1 ZOGLAB Company Information

13.16.2 ZOGLAB Wind Lidar Sensors Product Portfolios and Specifications

13.16.3 ZOGLAB Wind Lidar Sensors Sales, Revenue, Price and Gross Margin
(2021-2026)

13.16.4 ZOGLAB Main Business Overview

13.16.5 ZOGLAB Latest Developments

13.17 Beijing Metstar Radar

13.17.1 Beijing Metstar Radar Company Information

13.17.2 Beijing Metstar Radar Wind Lidar Sensors Product Portfolios and
Specifications

13.17.3 Beijing Metstar Radar Wind Lidar Sensors Sales, Revenue, Price and Gross
Margin (2021-2026)

13.17.4 Beijing Metstar Radar Main Business Overview

13.17.5 Beijing Metstar Radar Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Wind Lidar Sensors Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Wind Lidar Sensors Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Nacelle-Mounted Type

Table 4. Major Players of Ground-Based Type

Table 5. Major Players of 3D Scanning Type

Table 6. Major Players of Others

Table 7. Global Wind Lidar Sensors Sales by Type (2021-2026) & (Units)

Table 8. Global Wind Lidar Sensors Sales Market Share by Type (2021-2026)

Table 9. Global Wind Lidar Sensors Revenue by Type (2021-2026) & (\$ million)

Table 10. Global Wind Lidar Sensors Revenue Market Share by Type (2021-2026)

Table 11. Global Wind Lidar Sensors Sale Price by Type (2021-2026) & (US\$/Unit)

Table 12. Global Wind Lidar Sensors Sale by Application (2021-2026) & (Units)

Table 13. Global Wind Lidar Sensors Sale Market Share by Application (2021-2026)

Table 14. Global Wind Lidar Sensors Revenue by Application (2021-2026) & (\$ million)

Table 15. Global Wind Lidar Sensors Revenue Market Share by Application (2021-2026)

Table 16. Global Wind Lidar Sensors Sale Price by Application (2021-2026) & (US\$/Unit)

Table 17. Global Wind Lidar Sensors Sales by Company (2021-2026) & (Units)

Table 18. Global Wind Lidar Sensors Sales Market Share by Company (2021-2026)

Table 19. Global Wind Lidar Sensors Revenue by Company (2021-2026) & (\$ millions)

Table 20. Global Wind Lidar Sensors Revenue Market Share by Company (2021-2026)

Table 21. Global Wind Lidar Sensors Sale Price by Company (2021-2026) & (US\$/Unit)

Table 22. Key Manufacturers Wind Lidar Sensors Producing Area Distribution and Sales Area

Table 23. Players Wind Lidar Sensors Products Offered

Table 24. Wind Lidar Sensors Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 25. New Products and Potential Entrants

Table 26. Market M&A Activity & Strategy

Table 27. Global Wind Lidar Sensors Sales by Geographic Region (2021-2026) & (Units)

Table 28. Global Wind Lidar Sensors Sales Market Share Geographic Region

(2021-2026)

Table 29. Global Wind Lidar Sensors Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 30. Global Wind Lidar Sensors Revenue Market Share by Geographic Region (2021-2026)

Table 31. Global Wind Lidar Sensors Sales by Country/Region (2021-2026) & (Units)

Table 32. Global Wind Lidar Sensors Sales Market Share by Country/Region (2021-2026)

Table 33. Global Wind Lidar Sensors Revenue by Country/Region (2021-2026) & (\$ millions)

Table 34. Global Wind Lidar Sensors Revenue Market Share by Country/Region (2021-2026)

Table 35. Americas Wind Lidar Sensors Sales by Country (2021-2026) & (Units)

Table 36. Americas Wind Lidar Sensors Sales Market Share by Country (2021-2026)

Table 37. Americas Wind Lidar Sensors Revenue by Country (2021-2026) & (\$ millions)

Table 38. Americas Wind Lidar Sensors Sales by Type (2021-2026) & (Units)

Table 39. Americas Wind Lidar Sensors Sales by Application (2021-2026) & (Units)

Table 40. APAC Wind Lidar Sensors Sales by Region (2021-2026) & (Units)

Table 41. APAC Wind Lidar Sensors Sales Market Share by Region (2021-2026)

Table 42. APAC Wind Lidar Sensors Revenue by Region (2021-2026) & (\$ millions)

Table 43. APAC Wind Lidar Sensors Sales by Type (2021-2026) & (Units)

Table 44. APAC Wind Lidar Sensors Sales by Application (2021-2026) & (Units)

Table 45. Europe Wind Lidar Sensors Sales by Country (2021-2026) & (Units)

Table 46. Europe Wind Lidar Sensors Revenue by Country (2021-2026) & (\$ millions)

Table 47. Europe Wind Lidar Sensors Sales by Type (2021-2026) & (Units)

Table 48. Europe Wind Lidar Sensors Sales by Application (2021-2026) & (Units)

Table 49. Middle East & Africa Wind Lidar Sensors Sales by Country (2021-2026) & (Units)

Table 50. Middle East & Africa Wind Lidar Sensors Revenue Market Share by Country (2021-2026)

Table 51. Middle East & Africa Wind Lidar Sensors Sales by Type (2021-2026) & (Units)

Table 52. Middle East & Africa Wind Lidar Sensors Sales by Application (2021-2026) & (Units)

Table 53. Key Market Drivers & Growth Opportunities of Wind Lidar Sensors

Table 54. Key Market Challenges & Risks of Wind Lidar Sensors

Table 55. Key Industry Trends of Wind Lidar Sensors

Table 56. Wind Lidar Sensors Raw Material

Table 57. Key Suppliers of Raw Materials

Table 58. Wind Lidar Sensors Distributors List

Table 59. Wind Lidar Sensors Customer List

Table 60. Global Wind Lidar Sensors Sales Forecast by Region (2027-2032) & (Units)

Table 61. Global Wind Lidar Sensors Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 62. Americas Wind Lidar Sensors Sales Forecast by Country (2027-2032) & (Units)

Table 63. Americas Wind Lidar Sensors Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 64. APAC Wind Lidar Sensors Sales Forecast by Region (2027-2032) & (Units)

Table 65. APAC Wind Lidar Sensors Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 66. Europe Wind Lidar Sensors Sales Forecast by Country (2027-2032) & (Units)

Table 67. Europe Wind Lidar Sensors Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 68. Middle East & Africa Wind Lidar Sensors Sales Forecast by Country (2027-2032) & (Units)

Table 69. Middle East & Africa Wind Lidar Sensors Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 70. Global Wind Lidar Sensors Sales Forecast by Type (2027-2032) & (Units)

Table 71. Global Wind Lidar Sensors Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 72. Global Wind Lidar Sensors Sales Forecast by Application (2027-2032) & (Units)

Table 73. Global Wind Lidar Sensors Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 74. Vaisala Basic Information, Wind Lidar Sensors Manufacturing Base, Sales Area and Its Competitors

Table 75. Vaisala Wind Lidar Sensors Product Portfolios and Specifications

Table 76. Vaisala Wind Lidar Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 77. Vaisala Main Business

Table 78. Vaisala Latest Developments

Table 79. ZX Lidars Basic Information, Wind Lidar Sensors Manufacturing Base, Sales Area and Its Competitors

Table 80. ZX Lidars Wind Lidar Sensors Product Portfolios and Specifications

Table 81. ZX Lidars Wind Lidar Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 82. ZX Lidars Main Business

Table 83. ZX Lidars Latest Developments

- Table 84. Lockheed Martin Basic Information, Wind Lidar Sensors Manufacturing Base, Sales Area and Its Competitors
- Table 85. Lockheed Martin Wind Lidar Sensors Product Portfolios and Specifications
- Table 86. Lockheed Martin Wind Lidar Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 87. Lockheed Martin Main Business
- Table 88. Lockheed Martin Latest Developments
- Table 89. John Wood Group Basic Information, Wind Lidar Sensors Manufacturing Base, Sales Area and Its Competitors
- Table 90. John Wood Group Wind Lidar Sensors Product Portfolios and Specifications
- Table 91. John Wood Group Wind Lidar Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 92. John Wood Group Main Business
- Table 93. John Wood Group Latest Developments
- Table 94. HALO Photonics (Lumibird) Basic Information, Wind Lidar Sensors Manufacturing Base, Sales Area and Its Competitors
- Table 95. HALO Photonics (Lumibird) Wind Lidar Sensors Product Portfolios and Specifications
- Table 96. HALO Photonics (Lumibird) Wind Lidar Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 97. HALO Photonics (Lumibird) Main Business
- Table 98. HALO Photonics (Lumibird) Latest Developments
- Table 99. Windar Photonics Basic Information, Wind Lidar Sensors Manufacturing Base, Sales Area and Its Competitors
- Table 100. Windar Photonics Wind Lidar Sensors Product Portfolios and Specifications
- Table 101. Windar Photonics Wind Lidar Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 102. Windar Photonics Main Business
- Table 103. Windar Photonics Latest Developments
- Table 104. Mitsubishi Electric Basic Information, Wind Lidar Sensors Manufacturing Base, Sales Area and Its Competitors
- Table 105. Mitsubishi Electric Wind Lidar Sensors Product Portfolios and Specifications
- Table 106. Mitsubishi Electric Wind Lidar Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 107. Mitsubishi Electric Main Business
- Table 108. Mitsubishi Electric Latest Developments
- Table 109. Nanjing Movelaser Basic Information, Wind Lidar Sensors Manufacturing Base, Sales Area and Its Competitors
- Table 110. Nanjing Movelaser Wind Lidar Sensors Product Portfolios and Specifications

Table 111. Nanjing Movelaser Wind Lidar Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 112. Nanjing Movelaser Main Business

Table 113. Nanjing Movelaser Latest Developments

Table 114. Qingdao Huahang Seaglet environmental technology Basic Information, Wind Lidar Sensors Manufacturing Base, Sales Area and Its Competitors

Table 115. Qingdao Huahang Seaglet environmental technology Wind Lidar Sensors Product Portfolios and Specifications

Table 116. Qingdao Huahang Seaglet environmental technology Wind Lidar Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 117. Qingdao Huahang Seaglet environmental technology Main Business

Table 118. Qingdao Huahang Seaglet environmental technology Latest Developments

Table 119. Qingdao Leice Transient Technology Basic Information, Wind Lidar Sensors Manufacturing Base, Sales Area and Its Competitors

Table 120. Qingdao Leice Transient Technology Wind Lidar Sensors Product Portfolios and Specifications

Table 121. Qingdao Leice Transient Technology Wind Lidar Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 122. Qingdao Leice Transient Technology Main Business

Table 123. Qingdao Leice Transient Technology Latest Developments

Table 124. Everise Technology Basic Information, Wind Lidar Sensors Manufacturing Base, Sales Area and Its Competitors

Table 125. Everise Technology Wind Lidar Sensors Product Portfolios and Specifications

Table 126. Everise Technology Wind Lidar Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 127. Everise Technology Main Business

Table 128. Everise Technology Latest Developments

Table 129. Anhui Landun Photoelectron Basic Information, Wind Lidar Sensors Manufacturing Base, Sales Area and Its Competitors

Table 130. Anhui Landun Photoelectron Wind Lidar Sensors Product Portfolios and Specifications

Table 131. Anhui Landun Photoelectron Wind Lidar Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 132. Anhui Landun Photoelectron Main Business

Table 133. Anhui Landun Photoelectron Latest Developments

Table 134. EMGO-TECH TECHNOLOGYGY Basic Information, Wind Lidar Sensors Manufacturing Base, Sales Area and Its Competitors

Table 135. EMGO-TECH TECHNOLOGYGY Wind Lidar Sensors Product Portfolios and

Specifications

Table 136. EMGO-TECH TECHNOLOGYGY Wind Lidar Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 137. EMGO-TECH TECHNOLOGYGY Main Business

Table 138. EMGO-TECH TECHNOLOGYGY Latest Developments

Table 139. Beijing Guanxiang Optoelectronic Technology Basic Information, Wind Lidar Sensors Manufacturing Base, Sales Area and Its Competitors

Table 140. Beijing Guanxiang Optoelectronic Technology Wind Lidar Sensors Product Portfolios and Specifications

Table 141. Beijing Guanxiang Optoelectronic Technology Wind Lidar Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 142. Beijing Guanxiang Optoelectronic Technology Main Business

Table 143. Beijing Guanxiang Optoelectronic Technology Latest Developments

Table 144. Shenzhen Darsunlaser Tech Basic Information, Wind Lidar Sensors Manufacturing Base, Sales Area and Its Competitors

Table 145. Shenzhen Darsunlaser Tech Wind Lidar Sensors Product Portfolios and Specifications

Table 146. Shenzhen Darsunlaser Tech Wind Lidar Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 147. Shenzhen Darsunlaser Tech Main Business

Table 148. Shenzhen Darsunlaser Tech Latest Developments

Table 149. ZOGLAB Basic Information, Wind Lidar Sensors Manufacturing Base, Sales Area and Its Competitors

Table 150. ZOGLAB Wind Lidar Sensors Product Portfolios and Specifications

Table 151. ZOGLAB Wind Lidar Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 152. ZOGLAB Main Business

Table 153. ZOGLAB Latest Developments

Table 154. Beijing Metstar Radar Basic Information, Wind Lidar Sensors Manufacturing Base, Sales Area and Its Competitors

Table 155. Beijing Metstar Radar Wind Lidar Sensors Product Portfolios and Specifications

Table 156. Beijing Metstar Radar Wind Lidar Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 157. Beijing Metstar Radar Main Business

Table 158. Beijing Metstar Radar Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Wind Lidar Sensors
- Figure 2. Wind Lidar Sensors Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Wind Lidar Sensors Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global Wind Lidar Sensors Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Wind Lidar Sensors Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Wind Lidar Sensors Sales Market Share by Country/Region (2025)
- Figure 10. Wind Lidar Sensors Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Nacelle-Mounted Type
- Figure 12. Product Picture of Ground-Based Type
- Figure 13. Product Picture of 3D Scanning Type
- Figure 14. Product Picture of Others
- Figure 15. Global Wind Lidar Sensors Sales Market Share by Type in 2026
- Figure 16. Global Wind Lidar Sensors Revenue Market Share by Type (2021-2026)
- Figure 17. Wind Lidar Sensors Consumed in Wind Energy
- Figure 18. Global Wind Lidar Sensors Market: Wind Energy (2021-2026) & (Units)
- Figure 19. Wind Lidar Sensors Consumed in Meteorology & Environmental
- Figure 20. Global Wind Lidar Sensors Market: Meteorology & Environmental (2021-2026) & (Units)
- Figure 21. Wind Lidar Sensors Consumed in Aviation Safety
- Figure 22. Global Wind Lidar Sensors Market: Aviation Safety (2021-2026) & (Units)
- Figure 23. Wind Lidar Sensors Consumed in Others
- Figure 24. Global Wind Lidar Sensors Market: Others (2021-2026) & (Units)
- Figure 25. Global Wind Lidar Sensors Sale Market Share by Application (2025)
- Figure 26. Global Wind Lidar Sensors Revenue Market Share by Application in 2026
- Figure 27. Wind Lidar Sensors Sales by Company in 2026 (Units)
- Figure 28. Global Wind Lidar Sensors Sales Market Share by Company in 2026
- Figure 29. Wind Lidar Sensors Revenue by Company in 2026 (\$ millions)
- Figure 30. Global Wind Lidar Sensors Revenue Market Share by Company in 2026
- Figure 31. Global Wind Lidar Sensors Sales Market Share by Geographic Region (2021-2026)

Figure 32. Global Wind Lidar Sensors Revenue Market Share by Geographic Region in 2026

Figure 33. Americas Wind Lidar Sensors Sales 2021-2026 (Units)

Figure 34. Americas Wind Lidar Sensors Revenue 2021-2026 (\$ millions)

Figure 35. APAC Wind Lidar Sensors Sales 2021-2026 (Units)

Figure 36. APAC Wind Lidar Sensors Revenue 2021-2026 (\$ millions)

Figure 37. Europe Wind Lidar Sensors Sales 2021-2026 (Units)

Figure 38. Europe Wind Lidar Sensors Revenue 2021-2026 (\$ millions)

Figure 39. Middle East & Africa Wind Lidar Sensors Sales 2021-2026 (Units)

Figure 40. Middle East & Africa Wind Lidar Sensors Revenue 2021-2026 (\$ millions)

Figure 41. Americas Wind Lidar Sensors Sales Market Share by Country in 2026

Figure 42. Americas Wind Lidar Sensors Revenue Market Share by Country (2021-2026)

Figure 43. Americas Wind Lidar Sensors Sales Market Share by Type (2021-2026)

Figure 44. Americas Wind Lidar Sensors Sales Market Share by Application (2021-2026)

Figure 45. United States Wind Lidar Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 46. Canada Wind Lidar Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 47. Mexico Wind Lidar Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 48. Brazil Wind Lidar Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 49. APAC Wind Lidar Sensors Sales Market Share by Region in 2026

Figure 50. APAC Wind Lidar Sensors Revenue Market Share by Region (2021-2026)

Figure 51. APAC Wind Lidar Sensors Sales Market Share by Type (2021-2026)

Figure 52. APAC Wind Lidar Sensors Sales Market Share by Application (2021-2026)

Figure 53. China Wind Lidar Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 54. Japan Wind Lidar Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 55. South Korea Wind Lidar Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 56. Southeast Asia Wind Lidar Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 57. India Wind Lidar Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 58. Australia Wind Lidar Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 59. China Taiwan Wind Lidar Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 60. Europe Wind Lidar Sensors Sales Market Share by Country in 2026

Figure 61. Europe Wind Lidar Sensors Revenue Market Share by Country (2021-2026)

Figure 62. Europe Wind Lidar Sensors Sales Market Share by Type (2021-2026)

Figure 63. Europe Wind Lidar Sensors Sales Market Share by Application (2021-2026)

Figure 64. Germany Wind Lidar Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 65. France Wind Lidar Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 66. UK Wind Lidar Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 67. Italy Wind Lidar Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 68. Russia Wind Lidar Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 69. Middle East & Africa Wind Lidar Sensors Sales Market Share by Country (2021-2026)

Figure 70. Middle East & Africa Wind Lidar Sensors Sales Market Share by Type (2021-2026)

Figure 71. Middle East & Africa Wind Lidar Sensors Sales Market Share by Application (2021-2026)

Figure 72. Egypt Wind Lidar Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 73. South Africa Wind Lidar Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 74. Israel Wind Lidar Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 75. Turkey Wind Lidar Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 76. GCC Countries Wind Lidar Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 77. Manufacturing Cost Structure Analysis of Wind Lidar Sensors in 2026

Figure 78. Manufacturing Process Analysis of Wind Lidar Sensors

Figure 79. Industry Chain Structure of Wind Lidar Sensors

Figure 80. Channels of Distribution

Figure 81. Global Wind Lidar Sensors Sales Market Forecast by Region (2027-2032)

Figure 82. Global Wind Lidar Sensors Revenue Market Share Forecast by Region (2027-2032)

Figure 83. Global Wind Lidar Sensors Sales Market Share Forecast by Type (2027-2032)

Figure 84. Global Wind Lidar Sensors Revenue Market Share Forecast by Type (2027-2032)

Figure 85. Global Wind Lidar Sensors Sales Market Share Forecast by Application (2027-2032)

Figure 86. Global Wind Lidar Sensors Revenue Market Share Forecast by Application (2027-2032)

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