

Global 1.5 μ m Fiber Laser LiDAR Light Source Module Market Growth 2025-2031

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Abstracts

The global 1.5 μ m Fiber Laser LiDAR Light Source Module market size is predicted to grow from US\$ 213 million in 2025 to US\$ 1403 million in 2031; it is expected to grow at a CAGR of 36.9% 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.

1.5 μ m Fiber Laser LiDAR Light Source Module refers to a laser source module based on fiber laser technology operating at a wavelength of approximately 1.5 micrometers (1550nm), specifically designed for LiDAR systems such as FMCW or ToF. This module features high output power, narrow linewidth, low phase noise, and excellent beam quality, making it widely used in autonomous driving, industrial ranging, aerospace, and fiber optic sensing applications, especially in scenarios requiring long-distance detection and high eye safety compliance (Class 1 standard).

United States market for 1.5 μ m Fiber Laser LiDAR Light Source Module 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 1.5 μ m Fiber Laser LiDAR Light Source Module 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 1.5 μ m Fiber Laser LiDAR Light Source Module is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

through 2031.

Global key 1.5µm Fiber Laser LiDAR Light Source Module players cover Coherent, Nlight Corporation, IPG Photonics, Lumibird, Furukawa Electric, 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 “1.5µm Fiber Laser LiDAR Light Source Module Industry Forecast” looks at past sales and reviews total world 1.5µm Fiber Laser LiDAR Light Source Module sales in 2024, providing a comprehensive analysis by region and market sector of projected 1.5µm Fiber Laser LiDAR Light Source Module sales for 2025 through 2031. With 1.5µm Fiber Laser LiDAR Light Source Module sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 1.5µm Fiber Laser LiDAR Light Source Module industry.

This Insight Report provides a comprehensive analysis of the global 1.5µm Fiber Laser LiDAR Light Source Module 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 1.5µm Fiber Laser LiDAR Light Source Module portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 1.5µm Fiber Laser LiDAR Light Source Module market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 1.5µm Fiber Laser LiDAR Light Source Module 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 1.5µm Fiber Laser LiDAR Light Source Module.

This report presents a comprehensive overview, market shares, and growth opportunities of 1.5µm Fiber Laser LiDAR Light Source Module market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Continuous Wave Light Source

Pulse Light Source

Other

Segmentation by Application:

Automotive LiDAR

Industrial

Defense and Aerospace

Fiber Optic Sensing

Other

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.

Coherent

Nlight Corporation

IPG Photonics

Lumibird

Furukawa Electric

Focuslight Technologies

Hitronics Technologies

Lemon Photonics

Benewake

BKtel Photonics

Key Questions Addressed in this Report

What is the 10-year outlook for the global 1.5 μ m Fiber Laser LiDAR Light Source Module market?

What factors are driving 1.5 μ m Fiber Laser LiDAR Light Source Module market growth, globally and by region?

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

How do 1.5 μ m Fiber Laser LiDAR Light Source Module market opportunities vary by end market size?

How does 1.5 μ m Fiber Laser LiDAR Light Source Module 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 1.5 μ m Fiber Laser LiDAR Light Source Module Annual Sales 2020-2031
- 2.1.2 World Current & Future Analysis for 1.5 μ m Fiber Laser LiDAR Light Source Module by Geographic Region, 2020, 2024 & 2031
- 2.1.3 World Current & Future Analysis for 1.5 μ m Fiber Laser LiDAR Light Source Module by Country/Region, 2020, 2024 & 2031

2.2 1.5 μ m Fiber Laser LiDAR Light Source Module Segment by Type

- 2.2.1 Continuous Wave Light Source
- 2.2.2 Pulse Light Source
- 2.2.3 Other

2.3 1.5 μ m Fiber Laser LiDAR Light Source Module Sales by Type

- 2.3.1 Global 1.5 μ m Fiber Laser LiDAR Light Source Module Sales Market Share by Type (2020-2025)
- 2.3.2 Global 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue and Market Share by Type (2020-2025)
- 2.3.3 Global 1.5 μ m Fiber Laser LiDAR Light Source Module Sale Price by Type (2020-2025)

2.4 1.5 μ m Fiber Laser LiDAR Light Source Module Segment by Application

- 2.4.1 Automotive LiDAR
- 2.4.2 Industrial
- 2.4.3 Defense and Aerospace
- 2.4.4 Fiber Optic Sensing
- 2.4.5 Other

2.5 1.5 μ m Fiber Laser LiDAR Light Source Module Sales by Application

2.5.1 Global 1.5µm Fiber Laser LiDAR Light Source Module Sale Market Share by Application (2020-2025)

2.5.2 Global 1.5µm Fiber Laser LiDAR Light Source Module Revenue and Market Share by Application (2020-2025)

2.5.3 Global 1.5µm Fiber Laser LiDAR Light Source Module Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global 1.5µm Fiber Laser LiDAR Light Source Module Breakdown Data by Company

3.1.1 Global 1.5µm Fiber Laser LiDAR Light Source Module Annual Sales by Company (2020-2025)

3.1.2 Global 1.5µm Fiber Laser LiDAR Light Source Module Sales Market Share by Company (2020-2025)

3.2 Global 1.5µm Fiber Laser LiDAR Light Source Module Annual Revenue by Company (2020-2025)

3.2.1 Global 1.5µm Fiber Laser LiDAR Light Source Module Revenue by Company (2020-2025)

3.2.2 Global 1.5µm Fiber Laser LiDAR Light Source Module Revenue Market Share by Company (2020-2025)

3.3 Global 1.5µm Fiber Laser LiDAR Light Source Module Sale Price by Company

3.4 Key Manufacturers 1.5µm Fiber Laser LiDAR Light Source Module Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers 1.5µm Fiber Laser LiDAR Light Source Module Product Location Distribution

3.4.2 Players 1.5µm Fiber Laser LiDAR Light Source Module 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 1.5µM FIBER LASER LIDAR LIGHT SOURCE MODULE BY GEOGRAPHIC REGION

4.1 World Historic 1.5µm Fiber Laser LiDAR Light Source Module Market Size by Geographic Region (2020-2025)

4.1.1 Global 1.5µm Fiber Laser LiDAR Light Source Module Annual Sales by

Geographic Region (2020-2025)

4.1.2 Global 1.5 μ m Fiber Laser LiDAR Light Source Module Annual Revenue by Geographic Region (2020-2025)

4.2 World Historic 1.5 μ m Fiber Laser LiDAR Light Source Module Market Size by Country/Region (2020-2025)

4.2.1 Global 1.5 μ m Fiber Laser LiDAR Light Source Module Annual Sales by Country/Region (2020-2025)

4.2.2 Global 1.5 μ m Fiber Laser LiDAR Light Source Module Annual Revenue by Country/Region (2020-2025)

4.3 Americas 1.5 μ m Fiber Laser LiDAR Light Source Module Sales Growth

4.4 APAC 1.5 μ m Fiber Laser LiDAR Light Source Module Sales Growth

4.5 Europe 1.5 μ m Fiber Laser LiDAR Light Source Module Sales Growth

4.6 Middle East & Africa 1.5 μ m Fiber Laser LiDAR Light Source Module Sales Growth

5 AMERICAS

5.1 Americas 1.5 μ m Fiber Laser LiDAR Light Source Module Sales by Country

5.1.1 Americas 1.5 μ m Fiber Laser LiDAR Light Source Module Sales by Country (2020-2025)

5.1.2 Americas 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue by Country (2020-2025)

5.2 Americas 1.5 μ m Fiber Laser LiDAR Light Source Module Sales by Type (2020-2025)

5.3 Americas 1.5 μ m Fiber Laser LiDAR Light Source Module Sales by Application (2020-2025)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC 1.5 μ m Fiber Laser LiDAR Light Source Module Sales by Region

6.1.1 APAC 1.5 μ m Fiber Laser LiDAR Light Source Module Sales by Region (2020-2025)

6.1.2 APAC 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue by Region (2020-2025)

6.2 APAC 1.5 μ m Fiber Laser LiDAR Light Source Module Sales by Type (2020-2025)

6.3 APAC 1.5 μ m Fiber Laser LiDAR Light Source Module 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 1.5 μ m Fiber Laser LiDAR Light Source Module by Country

7.1.1 Europe 1.5 μ m Fiber Laser LiDAR Light Source Module Sales by Country
(2020-2025)

7.1.2 Europe 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue by Country
(2020-2025)

7.2 Europe 1.5 μ m Fiber Laser LiDAR Light Source Module Sales by Type (2020-2025)

7.3 Europe 1.5 μ m Fiber Laser LiDAR Light Source Module 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 1.5 μ m Fiber Laser LiDAR Light Source Module by Country

8.1.1 Middle East & Africa 1.5 μ m Fiber Laser LiDAR Light Source Module Sales by
Country (2020-2025)

8.1.2 Middle East & Africa 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue by
Country (2020-2025)

8.2 Middle East & Africa 1.5 μ m Fiber Laser LiDAR Light Source Module Sales by Type
(2020-2025)

8.3 Middle East & Africa 1.5 μ m Fiber Laser LiDAR Light Source Module 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 1.5 μ m Fiber Laser LiDAR Light Source Module

10.3 Manufacturing Process Analysis of 1.5 μ m Fiber Laser LiDAR Light Source Module

10.4 Industry Chain Structure of 1.5 μ m Fiber Laser LiDAR Light Source Module

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 1.5 μ m Fiber Laser LiDAR Light Source Module Distributors

11.3 1.5 μ m Fiber Laser LiDAR Light Source Module Customer

12 WORLD FORECAST REVIEW FOR 1.5 μ M FIBER LASER LIDAR LIGHT SOURCE MODULE BY GEOGRAPHIC REGION

12.1 Global 1.5 μ m Fiber Laser LiDAR Light Source Module Market Size Forecast by Region

12.1.1 Global 1.5 μ m Fiber Laser LiDAR Light Source Module Forecast by Region (2026-2031)

12.1.2 Global 1.5 μ m Fiber Laser LiDAR Light Source Module 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 1.5 μ m Fiber Laser LiDAR Light Source Module Forecast by Type

(2026-2031)

12.7 Global 1.5 μ m Fiber Laser LiDAR Light Source Module Forecast by Application

(2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 Coherent

13.1.1 Coherent Company Information

13.1.2 Coherent 1.5 μ m Fiber Laser LiDAR Light Source Module Product Portfolios and Specifications

13.1.3 Coherent 1.5 μ m Fiber Laser LiDAR Light Source Module Sales, Revenue, Price and Gross Margin (2020-2025)

13.1.4 Coherent Main Business Overview

13.1.5 Coherent Latest Developments

13.2 Nlight Corporation

13.2.1 Nlight Corporation Company Information

13.2.2 Nlight Corporation 1.5 μ m Fiber Laser LiDAR Light Source Module Product Portfolios and Specifications

13.2.3 Nlight Corporation 1.5 μ m Fiber Laser LiDAR Light Source Module Sales, Revenue, Price and Gross Margin (2020-2025)

13.2.4 Nlight Corporation Main Business Overview

13.2.5 Nlight Corporation Latest Developments

13.3 IPG Photonics

13.3.1 IPG Photonics Company Information

13.3.2 IPG Photonics 1.5 μ m Fiber Laser LiDAR Light Source Module Product Portfolios and Specifications

13.3.3 IPG Photonics 1.5 μ m Fiber Laser LiDAR Light Source Module Sales, Revenue, Price and Gross Margin (2020-2025)

13.3.4 IPG Photonics Main Business Overview

13.3.5 IPG Photonics Latest Developments

13.4 Lumibird

13.4.1 Lumibird Company Information

13.4.2 Lumibird 1.5 μ m Fiber Laser LiDAR Light Source Module Product Portfolios and Specifications

13.4.3 Lumibird 1.5 μ m Fiber Laser LiDAR Light Source Module Sales, Revenue, Price and Gross Margin (2020-2025)

13.4.4 Lumibird Main Business Overview

13.4.5 Lumibird Latest Developments

13.5 Furukawa Electric

- 13.5.1 Furukawa Electric Company Information
- 13.5.2 Furukawa Electric 1.5µm Fiber Laser LiDAR Light Source Module Product Portfolios and Specifications
- 13.5.3 Furukawa Electric 1.5µm Fiber Laser LiDAR Light Source Module Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.5.4 Furukawa Electric Main Business Overview
- 13.5.5 Furukawa Electric Latest Developments
- 13.6 Focuslight Technologies
 - 13.6.1 Focuslight Technologies Company Information
 - 13.6.2 Focuslight Technologies 1.5µm Fiber Laser LiDAR Light Source Module Product Portfolios and Specifications
 - 13.6.3 Focuslight Technologies 1.5µm Fiber Laser LiDAR Light Source Module Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.6.4 Focuslight Technologies Main Business Overview
 - 13.6.5 Focuslight Technologies Latest Developments
- 13.7 Hitronics Technologies
 - 13.7.1 Hitronics Technologies Company Information
 - 13.7.2 Hitronics Technologies 1.5µm Fiber Laser LiDAR Light Source Module Product Portfolios and Specifications
 - 13.7.3 Hitronics Technologies 1.5µm Fiber Laser LiDAR Light Source Module Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.7.4 Hitronics Technologies Main Business Overview
 - 13.7.5 Hitronics Technologies Latest Developments
- 13.8 Lemon Photonics
 - 13.8.1 Lemon Photonics Company Information
 - 13.8.2 Lemon Photonics 1.5µm Fiber Laser LiDAR Light Source Module Product Portfolios and Specifications
 - 13.8.3 Lemon Photonics 1.5µm Fiber Laser LiDAR Light Source Module Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.8.4 Lemon Photonics Main Business Overview
 - 13.8.5 Lemon Photonics Latest Developments
- 13.9 Benewake
 - 13.9.1 Benewake Company Information
 - 13.9.2 Benewake 1.5µm Fiber Laser LiDAR Light Source Module Product Portfolios and Specifications
 - 13.9.3 Benewake 1.5µm Fiber Laser LiDAR Light Source Module Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.9.4 Benewake Main Business Overview
 - 13.9.5 Benewake Latest Developments

13.10 BKtel Photonics

13.10.1 BKtel Photonics Company Information

13.10.2 BKtel Photonics 1.5 μ m Fiber Laser LiDAR Light Source Module Product Portfolios and Specifications

13.10.3 BKtel Photonics 1.5 μ m Fiber Laser LiDAR Light Source Module Sales, Revenue, Price and Gross Margin (2020-2025)

13.10.4 BKtel Photonics Main Business Overview

13.10.5 BKtel Photonics Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. 1.5 μ m Fiber Laser LiDAR Light Source Module Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)

Table 2. 1.5 μ m Fiber Laser LiDAR Light Source Module Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)

Table 3. Major Players of Continuous Wave Light Source

Table 4. Major Players of Pulse Light Source

Table 5. Major Players of Other

Table 6. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Sales by Type (2020-2025) & (K Units)

Table 7. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Sales Market Share by Type (2020-2025)

Table 8. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue by Type (2020-2025) & (\$ million)

Table 9. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Market Share by Type (2020-2025)

Table 10. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Sale Price by Type (2020-2025) & (US\$/Unit)

Table 11. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Sale by Application (2020-2025) & (K Units)

Table 12. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Sale Market Share by Application (2020-2025)

Table 13. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue by Application (2020-2025) & (\$ million)

Table 14. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Market Share by Application (2020-2025)

Table 15. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Sale Price by Application (2020-2025) & (US\$/Unit)

Table 16. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Sales by Company (2020-2025) & (K Units)

Table 17. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Sales Market Share by Company (2020-2025)

Table 18. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue by Company (2020-2025) & (\$ millions)

Table 19. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Market Share by Company (2020-2025)

Table 20. Global 1.5µm Fiber Laser LiDAR Light Source Module Sale Price by Company (2020-2025) & (US\$/Unit)

Table 21. Key Manufacturers 1.5µm Fiber Laser LiDAR Light Source Module Producing Area Distribution and Sales Area

Table 22. Players 1.5µm Fiber Laser LiDAR Light Source Module Products Offered

Table 23. 1.5µm Fiber Laser LiDAR Light Source Module 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 1.5µm Fiber Laser LiDAR Light Source Module Sales by Geographic Region (2020-2025) & (K Units)

Table 27. Global 1.5µm Fiber Laser LiDAR Light Source Module Sales Market Share Geographic Region (2020-2025)

Table 28. Global 1.5µm Fiber Laser LiDAR Light Source Module Revenue by Geographic Region (2020-2025) & (\$ millions)

Table 29. Global 1.5µm Fiber Laser LiDAR Light Source Module Revenue Market Share by Geographic Region (2020-2025)

Table 30. Global 1.5µm Fiber Laser LiDAR Light Source Module Sales by Country/Region (2020-2025) & (K Units)

Table 31. Global 1.5µm Fiber Laser LiDAR Light Source Module Sales Market Share by Country/Region (2020-2025)

Table 32. Global 1.5µm Fiber Laser LiDAR Light Source Module Revenue by Country/Region (2020-2025) & (\$ millions)

Table 33. Global 1.5µm Fiber Laser LiDAR Light Source Module Revenue Market Share by Country/Region (2020-2025)

Table 34. Americas 1.5µm Fiber Laser LiDAR Light Source Module Sales by Country (2020-2025) & (K Units)

Table 35. Americas 1.5µm Fiber Laser LiDAR Light Source Module Sales Market Share by Country (2020-2025)

Table 36. Americas 1.5µm Fiber Laser LiDAR Light Source Module Revenue by Country (2020-2025) & (\$ millions)

Table 37. Americas 1.5µm Fiber Laser LiDAR Light Source Module Sales by Type (2020-2025) & (K Units)

Table 38. Americas 1.5µm Fiber Laser LiDAR Light Source Module Sales by Application (2020-2025) & (K Units)

Table 39. APAC 1.5µm Fiber Laser LiDAR Light Source Module Sales by Region (2020-2025) & (K Units)

Table 40. APAC 1.5µm Fiber Laser LiDAR Light Source Module Sales Market Share by Region (2020-2025)

Table 41. APAC 1.5µm Fiber Laser LiDAR Light Source Module Revenue by Region (2020-2025) & (\$ millions)

Table 42. APAC 1.5µm Fiber Laser LiDAR Light Source Module Sales by Type (2020-2025) & (K Units)

Table 43. APAC 1.5µm Fiber Laser LiDAR Light Source Module Sales by Application (2020-2025) & (K Units)

Table 44. Europe 1.5µm Fiber Laser LiDAR Light Source Module Sales by Country (2020-2025) & (K Units)

Table 45. Europe 1.5µm Fiber Laser LiDAR Light Source Module Revenue by Country (2020-2025) & (\$ millions)

Table 46. Europe 1.5µm Fiber Laser LiDAR Light Source Module Sales by Type (2020-2025) & (K Units)

Table 47. Europe 1.5µm Fiber Laser LiDAR Light Source Module Sales by Application (2020-2025) & (K Units)

Table 48. Middle East & Africa 1.5µm Fiber Laser LiDAR Light Source Module Sales by Country (2020-2025) & (K Units)

Table 49. Middle East & Africa 1.5µm Fiber Laser LiDAR Light Source Module Revenue Market Share by Country (2020-2025)

Table 50. Middle East & Africa 1.5µm Fiber Laser LiDAR Light Source Module Sales by Type (2020-2025) & (K Units)

Table 51. Middle East & Africa 1.5µm Fiber Laser LiDAR Light Source Module Sales by Application (2020-2025) & (K Units)

Table 52. Key Market Drivers & Growth Opportunities of 1.5µm Fiber Laser LiDAR Light Source Module

Table 53. Key Market Challenges & Risks of 1.5µm Fiber Laser LiDAR Light Source Module

Table 54. Key Industry Trends of 1.5µm Fiber Laser LiDAR Light Source Module

Table 55. 1.5µm Fiber Laser LiDAR Light Source Module Raw Material

Table 56. Key Suppliers of Raw Materials

Table 57. 1.5µm Fiber Laser LiDAR Light Source Module Distributors List

Table 58. 1.5µm Fiber Laser LiDAR Light Source Module Customer List

Table 59. Global 1.5µm Fiber Laser LiDAR Light Source Module Sales Forecast by Region (2026-2031) & (K Units)

Table 60. Global 1.5µm Fiber Laser LiDAR Light Source Module Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 61. Americas 1.5µm Fiber Laser LiDAR Light Source Module Sales Forecast by Country (2026-2031) & (K Units)

Table 62. Americas 1.5µm Fiber Laser LiDAR Light Source Module Annual Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 63. APAC 1.5 μ m Fiber Laser LiDAR Light Source Module Sales Forecast by Region (2026-2031) & (K Units)

Table 64. APAC 1.5 μ m Fiber Laser LiDAR Light Source Module Annual Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 65. Europe 1.5 μ m Fiber Laser LiDAR Light Source Module Sales Forecast by Country (2026-2031) & (K Units)

Table 66. Europe 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 67. Middle East & Africa 1.5 μ m Fiber Laser LiDAR Light Source Module Sales Forecast by Country (2026-2031) & (K Units)

Table 68. Middle East & Africa 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 69. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Sales Forecast by Type (2026-2031) & (K Units)

Table 70. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Forecast by Type (2026-2031) & (\$ millions)

Table 71. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Sales Forecast by Application (2026-2031) & (K Units)

Table 72. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Forecast by Application (2026-2031) & (\$ millions)

Table 73. Coherent Basic Information, 1.5 μ m Fiber Laser LiDAR Light Source Module Manufacturing Base, Sales Area and Its Competitors

Table 74. Coherent 1.5 μ m Fiber Laser LiDAR Light Source Module Product Portfolios and Specifications

Table 75. Coherent 1.5 μ m Fiber Laser LiDAR Light Source Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 76. Coherent Main Business

Table 77. Coherent Latest Developments

Table 78. Nlight Corporation Basic Information, 1.5 μ m Fiber Laser LiDAR Light Source Module Manufacturing Base, Sales Area and Its Competitors

Table 79. Nlight Corporation 1.5 μ m Fiber Laser LiDAR Light Source Module Product Portfolios and Specifications

Table 80. Nlight Corporation 1.5 μ m Fiber Laser LiDAR Light Source Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 81. Nlight Corporation Main Business

Table 82. Nlight Corporation Latest Developments

Table 83. IPG Photonics Basic Information, 1.5 μ m Fiber Laser LiDAR Light Source Module Manufacturing Base, Sales Area and Its Competitors

Table 84. IPG Photonics 1.5 μ m Fiber Laser LiDAR Light Source Module Product

Portfolios and Specifications

Table 85. IPG Photonics 1.5µm Fiber Laser LiDAR Light Source Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 86. IPG Photonics Main Business

Table 87. IPG Photonics Latest Developments

Table 88. Lumibird Basic Information, 1.5µm Fiber Laser LiDAR Light Source Module Manufacturing Base, Sales Area and Its Competitors

Table 89. Lumibird 1.5µm Fiber Laser LiDAR Light Source Module Product Portfolios and Specifications

Table 90. Lumibird 1.5µm Fiber Laser LiDAR Light Source Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 91. Lumibird Main Business

Table 92. Lumibird Latest Developments

Table 93. Furukawa Electric Basic Information, 1.5µm Fiber Laser LiDAR Light Source Module Manufacturing Base, Sales Area and Its Competitors

Table 94. Furukawa Electric 1.5µm Fiber Laser LiDAR Light Source Module Product Portfolios and Specifications

Table 95. Furukawa Electric 1.5µm Fiber Laser LiDAR Light Source Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 96. Furukawa Electric Main Business

Table 97. Furukawa Electric Latest Developments

Table 98. Focuslight Technologies Basic Information, 1.5µm Fiber Laser LiDAR Light Source Module Manufacturing Base, Sales Area and Its Competitors

Table 99. Focuslight Technologies 1.5µm Fiber Laser LiDAR Light Source Module Product Portfolios and Specifications

Table 100. Focuslight Technologies 1.5µm Fiber Laser LiDAR Light Source Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 101. Focuslight Technologies Main Business

Table 102. Focuslight Technologies Latest Developments

Table 103. Hitronics Technologies Basic Information, 1.5µm Fiber Laser LiDAR Light Source Module Manufacturing Base, Sales Area and Its Competitors

Table 104. Hitronics Technologies 1.5µm Fiber Laser LiDAR Light Source Module Product Portfolios and Specifications

Table 105. Hitronics Technologies 1.5µm Fiber Laser LiDAR Light Source Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 106. Hitronics Technologies Main Business

Table 107. Hitronics Technologies Latest Developments

Table 108. Lemon Photonics Basic Information, 1.5µm Fiber Laser LiDAR Light Source Module Manufacturing Base, Sales Area and Its Competitors

Table 109. Lemon Photonics 1.5 μ m Fiber Laser LiDAR Light Source Module Product Portfolios and Specifications

Table 110. Lemon Photonics 1.5 μ m Fiber Laser LiDAR Light Source Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 111. Lemon Photonics Main Business

Table 112. Lemon Photonics Latest Developments

Table 113. Benewake Basic Information, 1.5 μ m Fiber Laser LiDAR Light Source Module Manufacturing Base, Sales Area and Its Competitors

Table 114. Benewake 1.5 μ m Fiber Laser LiDAR Light Source Module Product Portfolios and Specifications

Table 115. Benewake 1.5 μ m Fiber Laser LiDAR Light Source Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 116. Benewake Main Business

Table 117. Benewake Latest Developments

Table 118. BKtel Photonics Basic Information, 1.5 μ m Fiber Laser LiDAR Light Source Module Manufacturing Base, Sales Area and Its Competitors

Table 119. BKtel Photonics 1.5 μ m Fiber Laser LiDAR Light Source Module Product Portfolios and Specifications

Table 120. BKtel Photonics 1.5 μ m Fiber Laser LiDAR Light Source Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 121. BKtel Photonics Main Business

Table 122. BKtel Photonics Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of 1.5µm Fiber Laser LiDAR Light Source Module
- Figure 2. 1.5µm Fiber Laser LiDAR Light Source Module Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global 1.5µm Fiber Laser LiDAR Light Source Module Sales Growth Rate 2020-2031 (K Units)
- Figure 7. Global 1.5µm Fiber Laser LiDAR Light Source Module Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. 1.5µm Fiber Laser LiDAR Light Source Module Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. 1.5µm Fiber Laser LiDAR Light Source Module Sales Market Share by Country/Region (2024)
- Figure 10. 1.5µm Fiber Laser LiDAR Light Source Module Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of Continuous Wave Light Source
- Figure 12. Product Picture of Pulse Light Source
- Figure 13. Product Picture of Other
- Figure 14. Global 1.5µm Fiber Laser LiDAR Light Source Module Sales Market Share by Type in 2025
- Figure 15. Global 1.5µm Fiber Laser LiDAR Light Source Module Revenue Market Share by Type (2020-2025)
- Figure 16. 1.5µm Fiber Laser LiDAR Light Source Module Consumed in Automotive LiDAR
- Figure 17. Global 1.5µm Fiber Laser LiDAR Light Source Module Market: Automotive LiDAR (2020-2025) & (K Units)
- Figure 18. 1.5µm Fiber Laser LiDAR Light Source Module Consumed in Industrial
- Figure 19. Global 1.5µm Fiber Laser LiDAR Light Source Module Market: Industrial (2020-2025) & (K Units)
- Figure 20. 1.5µm Fiber Laser LiDAR Light Source Module Consumed in Defense and Aerospace
- Figure 21. Global 1.5µm Fiber Laser LiDAR Light Source Module Market: Defense and Aerospace (2020-2025) & (K Units)
- Figure 22. 1.5µm Fiber Laser LiDAR Light Source Module Consumed in Fiber Optic Sensing

Figure 23. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Market: Fiber Optic Sensing (2020-2025) & (K Units)

Figure 24. 1.5 μ m Fiber Laser LiDAR Light Source Module Consumed in Other

Figure 25. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Market: Other (2020-2025) & (K Units)

Figure 26. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Sale Market Share by Application (2024)

Figure 27. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Market Share by Application in 2025

Figure 28. 1.5 μ m Fiber Laser LiDAR Light Source Module Sales by Company in 2025 (K Units)

Figure 29. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Sales Market Share by Company in 2025

Figure 30. 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue by Company in 2025 (\$ millions)

Figure 31. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Market Share by Company in 2025

Figure 32. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Sales Market Share by Geographic Region (2020-2025)

Figure 33. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Market Share by Geographic Region in 2025

Figure 34. Americas 1.5 μ m Fiber Laser LiDAR Light Source Module Sales 2020-2025 (K Units)

Figure 35. Americas 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue 2020-2025 (\$ millions)

Figure 36. APAC 1.5 μ m Fiber Laser LiDAR Light Source Module Sales 2020-2025 (K Units)

Figure 37. APAC 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue 2020-2025 (\$ millions)

Figure 38. Europe 1.5 μ m Fiber Laser LiDAR Light Source Module Sales 2020-2025 (K Units)

Figure 39. Europe 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue 2020-2025 (\$ millions)

Figure 40. Middle East & Africa 1.5 μ m Fiber Laser LiDAR Light Source Module Sales 2020-2025 (K Units)

Figure 41. Middle East & Africa 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue 2020-2025 (\$ millions)

Figure 42. Americas 1.5 μ m Fiber Laser LiDAR Light Source Module Sales Market Share by Country in 2025

Figure 43. Americas 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Market Share by Country (2020-2025)

Figure 44. Americas 1.5 μ m Fiber Laser LiDAR Light Source Module Sales Market Share by Type (2020-2025)

Figure 45. Americas 1.5 μ m Fiber Laser LiDAR Light Source Module Sales Market Share by Application (2020-2025)

Figure 46. United States 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Growth 2020-2025 (\$ millions)

Figure 47. Canada 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Growth 2020-2025 (\$ millions)

Figure 48. Mexico 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Growth 2020-2025 (\$ millions)

Figure 49. Brazil 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Growth 2020-2025 (\$ millions)

Figure 50. APAC 1.5 μ m Fiber Laser LiDAR Light Source Module Sales Market Share by Region in 2025

Figure 51. APAC 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Market Share by Region (2020-2025)

Figure 52. APAC 1.5 μ m Fiber Laser LiDAR Light Source Module Sales Market Share by Type (2020-2025)

Figure 53. APAC 1.5 μ m Fiber Laser LiDAR Light Source Module Sales Market Share by Application (2020-2025)

Figure 54. China 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Growth 2020-2025 (\$ millions)

Figure 55. Japan 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Growth 2020-2025 (\$ millions)

Figure 56. South Korea 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Growth 2020-2025 (\$ millions)

Figure 57. Southeast Asia 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Growth 2020-2025 (\$ millions)

Figure 58. India 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Growth 2020-2025 (\$ millions)

Figure 59. Australia 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Growth 2020-2025 (\$ millions)

Figure 60. China Taiwan 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Growth 2020-2025 (\$ millions)

Figure 61. Europe 1.5 μ m Fiber Laser LiDAR Light Source Module Sales Market Share by Country in 2025

Figure 62. Europe 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Market

Share by Country (2020-2025)

Figure 63. Europe 1.5 μ m Fiber Laser LiDAR Light Source Module Sales Market Share by Type (2020-2025)

Figure 64. Europe 1.5 μ m Fiber Laser LiDAR Light Source Module Sales Market Share by Application (2020-2025)

Figure 65. Germany 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Growth 2020-2025 (\$ millions)

Figure 66. France 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Growth 2020-2025 (\$ millions)

Figure 67. UK 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Growth 2020-2025 (\$ millions)

Figure 68. Italy 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Growth 2020-2025 (\$ millions)

Figure 69. Russia 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Growth 2020-2025 (\$ millions)

Figure 70. Middle East & Africa 1.5 μ m Fiber Laser LiDAR Light Source Module Sales Market Share by Country (2020-2025)

Figure 71. Middle East & Africa 1.5 μ m Fiber Laser LiDAR Light Source Module Sales Market Share by Type (2020-2025)

Figure 72. Middle East & Africa 1.5 μ m Fiber Laser LiDAR Light Source Module Sales Market Share by Application (2020-2025)

Figure 73. Egypt 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Growth 2020-2025 (\$ millions)

Figure 74. South Africa 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Growth 2020-2025 (\$ millions)

Figure 75. Israel 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Growth 2020-2025 (\$ millions)

Figure 76. Turkey 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Growth 2020-2025 (\$ millions)

Figure 77. GCC Countries 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Growth 2020-2025 (\$ millions)

Figure 78. Manufacturing Cost Structure Analysis of 1.5 μ m Fiber Laser LiDAR Light Source Module in 2025

Figure 79. Manufacturing Process Analysis of 1.5 μ m Fiber Laser LiDAR Light Source Module

Figure 80. Industry Chain Structure of 1.5 μ m Fiber Laser LiDAR Light Source Module

Figure 81. Channels of Distribution

Figure 82. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Sales Market Forecast by Region (2026-2031)

Figure 83. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Market Share Forecast by Region (2026-2031)

Figure 84. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Sales Market Share Forecast by Type (2026-2031)

Figure 85. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Market Share Forecast by Type (2026-2031)

Figure 86. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Sales Market Share Forecast by Application (2026-2031)

Figure 87. Global 1.5 μ m Fiber Laser LiDAR Light Source Module Revenue Market Share Forecast by Application (2026-2031)

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