

Global Single-Mode OPS Lasers Market Growth 2024-2030

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Abstracts

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The single-mode OPS laser is a high-stability light specially designed for pumping applications. The core of single-mode laser is relatively thin, the beam quality is better, the energy distribution is Gaussian, and the middle energy density is the highest. OPS laser generate near-diffraction limited beams from low brightness diode-array pumps.

The global Single-Mode OPS Lasers market size is projected to grow from US\$ 1331.4 million in 2023 to US\$ 2892.6 million in 2030; it is expected to grow at a CAGR of 11.7% from 2024 to 2030.

LP Information, Inc. (LPI) ' newest research report, the "Single-Mode OPS Lasers Industry Forecast" looks at past sales and reviews total world Single-Mode OPS Lasers sales in 2023, providing a comprehensive analysis by region and market sector of projected Single-Mode OPS Lasers sales for 2024 through 2030. With Single-Mode OPS Lasers sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Single-Mode OPS Lasers industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Single-Mode OPS Lasers 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 Single-Mode OPS Lasers.

The increasing number of data centers has increased the need for high data transfer speeds to maintain and manage data centers. The ability of VCSEL to emit light at high speed makes it one of the ideal choices for high-speed data transmission applications. Hence, the growing demand for VCSELs for data center optical interconnect infrastructure is expected to provide lucrative opportunities for the growth of the VCSEL market in the coming years. In January 2021, the President of the United States announced plans to strengthen American manufacturing under the Made in America initiative, which focuses on creating technologically advanced and automated manufacturing. The President announced \$300 billion in funding for research and development activities and the incorporation of advanced technologies to boost national production. These technological advancements include automation. Additionally, VCSELs are widely used in Light Detection and Ranging (LiDAR) based technologies to measure or sense range and distance in sensing applications. Hence, the increasing adoption of automation technologies in manufacturing facilities is driving the demand for lidar-based systems. To meet this demand, market players are launching VCSEL products that can be used in vehicle automation systems. In January 2022, Lumentum Operations LLC, an American VCSEL array supplier, partnered with HESAI, a global leader in 3D Light Detection and Ranging (LiDAR) solutions. The collaboration aims to develop a hybrid solid-state LiDAR AT128 for advanced driver assistance systems (ADAS) with a VCSEL-based design to meet cost-effective, automotive-grade reliability and conformance requirements. The use of VCSEL array light sources improves the scalability of LiDAR, thereby increasing the demand of end users for the above-mentioned applications. Hence, such partnerships are contributing to the growth of the North American VCSEL market.

This report presents a comprehensive overview, market shares, and growth opportunities of Single-Mode OPS Lasers market by product type, application, key manufacturers and key regions and countries.

Segmentation by type

976 nm

980 nm

1480 nm

Others

Segmentation by application

Metal Processing

Medical

Communication

Laboratory

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 analyzing the company's coverage, product portfolio, its market penetration.

II-VI

Furukawa Electric

Polytec GmbH

Lumentum

3SP Technologies

DoGain Laser Technology

Lumics

Oxxius

Thorlabs

InnoLas

Vexlum

Key Questions Addressed in this Report

What is the 10-year outlook for the global Single-Mode OPS Lasers market?

What factors are driving Single-Mode OPS Lasers market growth, globally and by region?

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

How do Single-Mode OPS Lasers market opportunities vary by end market size?

How does Single-Mode OPS Lasers break out type, 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 Single-Mode OPS Lasers Annual Sales 2019-2030
 - 2.1.2 World Current & Future Analysis for Single-Mode OPS Lasers by Geographic Region, 2019, 2023 & 2030
 - 2.1.3 World Current & Future Analysis for Single-Mode OPS Lasers by Country/Region, 2019, 2023 & 2030
- 2.2 Single-Mode OPS Lasers Segment by Type
 - 2.2.1 976 nm
 - 2.2.2 980 nm
 - 2.2.3 1480 nm
 - 2.2.4 Others
- 2.3 Single-Mode OPS Lasers Sales by Type
 - 2.3.1 Global Single-Mode OPS Lasers Sales Market Share by Type (2019-2024)
 - 2.3.2 Global Single-Mode OPS Lasers Revenue and Market Share by Type (2019-2024)
 - 2.3.3 Global Single-Mode OPS Lasers Sale Price by Type (2019-2024)
- 2.4 Single-Mode OPS Lasers Segment by Application
 - 2.4.1 Metal Processing
 - 2.4.2 Medical
 - 2.4.3 Communication
 - 2.4.4 Laboratory
- 2.5 Single-Mode OPS Lasers Sales by Application
 - 2.5.1 Global Single-Mode OPS Lasers Sale Market Share by Application (2019-2024)
 - 2.5.2 Global Single-Mode OPS Lasers Revenue and Market Share by Application

(2019-2024)

2.5.3 Global Single-Mode OPS Lasers Sale Price by Application (2019-2024)

3 GLOBAL SINGLE-MODE OPS LASERS BY COMPANY

3.1 Global Single-Mode OPS Lasers Breakdown Data by Company

3.1.1 Global Single-Mode OPS Lasers Annual Sales by Company (2019-2024)

3.1.2 Global Single-Mode OPS Lasers Sales Market Share by Company (2019-2024)

3.2 Global Single-Mode OPS Lasers Annual Revenue by Company (2019-2024)

3.2.1 Global Single-Mode OPS Lasers Revenue by Company (2019-2024)

3.2.2 Global Single-Mode OPS Lasers Revenue Market Share by Company
(2019-2024)

3.3 Global Single-Mode OPS Lasers Sale Price by Company

3.4 Key Manufacturers Single-Mode OPS Lasers Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Single-Mode OPS Lasers Product Location Distribution

3.4.2 Players Single-Mode OPS Lasers Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2019-2024)

3.6 New Products and Potential Entrants

3.7 Mergers & Acquisitions, Expansion

4 WORLD HISTORIC REVIEW FOR SINGLE-MODE OPS LASERS BY GEOGRAPHIC REGION

4.1 World Historic Single-Mode OPS Lasers Market Size by Geographic Region
(2019-2024)

4.1.1 Global Single-Mode OPS Lasers Annual Sales by Geographic Region
(2019-2024)

4.1.2 Global Single-Mode OPS Lasers Annual Revenue by Geographic Region
(2019-2024)

4.2 World Historic Single-Mode OPS Lasers Market Size by Country/Region
(2019-2024)

4.2.1 Global Single-Mode OPS Lasers Annual Sales by Country/Region (2019-2024)

4.2.2 Global Single-Mode OPS Lasers Annual Revenue by Country/Region
(2019-2024)

4.3 Americas Single-Mode OPS Lasers Sales Growth

4.4 APAC Single-Mode OPS Lasers Sales Growth

4.5 Europe Single-Mode OPS Lasers Sales Growth

4.6 Middle East & Africa Single-Mode OPS Lasers Sales Growth

5 AMERICAS

5.1 Americas Single-Mode OPS Lasers Sales by Country

5.1.1 Americas Single-Mode OPS Lasers Sales by Country (2019-2024)

5.1.2 Americas Single-Mode OPS Lasers Revenue by Country (2019-2024)

5.2 Americas Single-Mode OPS Lasers Sales by Type

5.3 Americas Single-Mode OPS Lasers Sales by Application

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Single-Mode OPS Lasers Sales by Region

6.1.1 APAC Single-Mode OPS Lasers Sales by Region (2019-2024)

6.1.2 APAC Single-Mode OPS Lasers Revenue by Region (2019-2024)

6.2 APAC Single-Mode OPS Lasers Sales by Type

6.3 APAC Single-Mode OPS Lasers Sales by Application

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 Single-Mode OPS Lasers by Country

7.1.1 Europe Single-Mode OPS Lasers Sales by Country (2019-2024)

7.1.2 Europe Single-Mode OPS Lasers Revenue by Country (2019-2024)

7.2 Europe Single-Mode OPS Lasers Sales by Type

7.3 Europe Single-Mode OPS Lasers Sales by Application

7.4 Germany

7.5 France

- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Single-Mode OPS Lasers by Country
 - 8.1.1 Middle East & Africa Single-Mode OPS Lasers Sales by Country (2019-2024)
 - 8.1.2 Middle East & Africa Single-Mode OPS Lasers Revenue by Country (2019-2024)
- 8.2 Middle East & Africa Single-Mode OPS Lasers Sales by Type
- 8.3 Middle East & Africa Single-Mode OPS Lasers Sales by Application
- 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 Single-Mode OPS Lasers
- 10.3 Manufacturing Process Analysis of Single-Mode OPS Lasers
- 10.4 Industry Chain Structure of Single-Mode OPS Lasers

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Single-Mode OPS Lasers Distributors
- 11.3 Single-Mode OPS Lasers Customer

12 WORLD FORECAST REVIEW FOR SINGLE-MODE OPS LASERS BY

GEOGRAPHIC REGION

- 12.1 Global Single-Mode OPS Lasers Market Size Forecast by Region
 - 12.1.1 Global Single-Mode OPS Lasers Forecast by Region (2025-2030)
 - 12.1.2 Global Single-Mode OPS Lasers Annual Revenue Forecast by Region (2025-2030)
- 12.2 Americas Forecast by Country
- 12.3 APAC Forecast by Region
- 12.4 Europe Forecast by Country
- 12.5 Middle East & Africa Forecast by Country
- 12.6 Global Single-Mode OPS Lasers Forecast by Type
- 12.7 Global Single-Mode OPS Lasers Forecast by Application

13 KEY PLAYERS ANALYSIS

- 13.1 II-VI
 - 13.1.1 II-VI Company Information
 - 13.1.2 II-VI Single-Mode OPS Lasers Product Portfolios and Specifications
 - 13.1.3 II-VI Single-Mode OPS Lasers Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.1.4 II-VI Main Business Overview
 - 13.1.5 II-VI Latest Developments
- 13.2 Furukawa Electric
 - 13.2.1 Furukawa Electric Company Information
 - 13.2.2 Furukawa Electric Single-Mode OPS Lasers Product Portfolios and Specifications
 - 13.2.3 Furukawa Electric Single-Mode OPS Lasers Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.2.4 Furukawa Electric Main Business Overview
 - 13.2.5 Furukawa Electric Latest Developments
- 13.3 Polytec GmbH
 - 13.3.1 Polytec GmbH Company Information
 - 13.3.2 Polytec GmbH Single-Mode OPS Lasers Product Portfolios and Specifications
 - 13.3.3 Polytec GmbH Single-Mode OPS Lasers Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.3.4 Polytec GmbH Main Business Overview
 - 13.3.5 Polytec GmbH Latest Developments
- 13.4 Lumentum
 - 13.4.1 Lumentum Company Information

- 13.4.2 Lumentum Single-Mode OPS Lasers Product Portfolios and Specifications
- 13.4.3 Lumentum Single-Mode OPS Lasers Sales, Revenue, Price and Gross Margin (2019-2024)
- 13.4.4 Lumentum Main Business Overview
- 13.4.5 Lumentum Latest Developments
- 13.5 3SP Technologies
 - 13.5.1 3SP Technologies Company Information
 - 13.5.2 3SP Technologies Single-Mode OPS Lasers Product Portfolios and Specifications
 - 13.5.3 3SP Technologies Single-Mode OPS Lasers Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.5.4 3SP Technologies Main Business Overview
 - 13.5.5 3SP Technologies Latest Developments
- 13.6 DoGain Laser Technology
 - 13.6.1 DoGain Laser Technology Company Information
 - 13.6.2 DoGain Laser Technology Single-Mode OPS Lasers Product Portfolios and Specifications
 - 13.6.3 DoGain Laser Technology Single-Mode OPS Lasers Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.6.4 DoGain Laser Technology Main Business Overview
 - 13.6.5 DoGain Laser Technology Latest Developments
- 13.7 Lumics
 - 13.7.1 Lumics Company Information
 - 13.7.2 Lumics Single-Mode OPS Lasers Product Portfolios and Specifications
 - 13.7.3 Lumics Single-Mode OPS Lasers Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.7.4 Lumics Main Business Overview
 - 13.7.5 Lumics Latest Developments
- 13.8 Oxxius
 - 13.8.1 Oxxius Company Information
 - 13.8.2 Oxxius Single-Mode OPS Lasers Product Portfolios and Specifications
 - 13.8.3 Oxxius Single-Mode OPS Lasers Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.8.4 Oxxius Main Business Overview
 - 13.8.5 Oxxius Latest Developments
- 13.9 Thorlabs
 - 13.9.1 Thorlabs Company Information
 - 13.9.2 Thorlabs Single-Mode OPS Lasers Product Portfolios and Specifications
 - 13.9.3 Thorlabs Single-Mode OPS Lasers Sales, Revenue, Price and Gross Margin

(2019-2024)

13.9.4 Thorlabs Main Business Overview

13.9.5 Thorlabs Latest Developments

13.10 InnoLas

13.10.1 InnoLas Company Information

13.10.2 InnoLas Single-Mode OPS Lasers Product Portfolios and Specifications

13.10.3 InnoLas Single-Mode OPS Lasers Sales, Revenue, Price and Gross Margin

(2019-2024)

13.10.4 InnoLas Main Business Overview

13.10.5 InnoLas Latest Developments

13.11 Vexlum

13.11.1 Vexlum Company Information

13.11.2 Vexlum Single-Mode OPS Lasers Product Portfolios and Specifications

13.11.3 Vexlum Single-Mode OPS Lasers Sales, Revenue, Price and Gross Margin

(2019-2024)

13.11.4 Vexlum Main Business Overview

13.11.5 Vexlum Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Single-Mode OPS Lasers Annual Sales CAGR by Geographic Region (2019, 2023 & 2030) & (\$ millions)

Table 2. Single-Mode OPS Lasers Annual Sales CAGR by Country/Region (2019, 2023 & 2030) & (\$ millions)

Table 3. Major Players of 976 nm

Table 4. Major Players of 980 nm

Table 5. Major Players of 1480 nm

Table 6. Major Players of Others

Table 7. Global Single-Mode OPS Lasers Sales by Type (2019-2024) & (K Units)

Table 8. Global Single-Mode OPS Lasers Sales Market Share by Type (2019-2024)

Table 9. Global Single-Mode OPS Lasers Revenue by Type (2019-2024) & (\$ million)

Table 10. Global Single-Mode OPS Lasers Revenue Market Share by Type (2019-2024)

Table 11. Global Single-Mode OPS Lasers Sale Price by Type (2019-2024) & (US\$/Unit)

Table 12. Global Single-Mode OPS Lasers Sales by Application (2019-2024) & (K Units)

Table 13. Global Single-Mode OPS Lasers Sales Market Share by Application (2019-2024)

Table 14. Global Single-Mode OPS Lasers Revenue by Application (2019-2024)

Table 15. Global Single-Mode OPS Lasers Revenue Market Share by Application (2019-2024)

Table 16. Global Single-Mode OPS Lasers Sale Price by Application (2019-2024) & (US\$/Unit)

Table 17. Global Single-Mode OPS Lasers Sales by Company (2019-2024) & (K Units)

Table 18. Global Single-Mode OPS Lasers Sales Market Share by Company (2019-2024)

Table 19. Global Single-Mode OPS Lasers Revenue by Company (2019-2024) (\$ Millions)

Table 20. Global Single-Mode OPS Lasers Revenue Market Share by Company (2019-2024)

Table 21. Global Single-Mode OPS Lasers Sale Price by Company (2019-2024) & (US\$/Unit)

Table 22. Key Manufacturers Single-Mode OPS Lasers Producing Area Distribution and Sales Area

Table 23. Players Single-Mode OPS Lasers Products Offered

Table 24. Single-Mode OPS Lasers Concentration Ratio (CR3, CR5 and CR10) & (2019-2024)

Table 25. New Products and Potential Entrants

Table 26. Mergers & Acquisitions, Expansion

Table 27. Global Single-Mode OPS Lasers Sales by Geographic Region (2019-2024) & (K Units)

Table 28. Global Single-Mode OPS Lasers Sales Market Share Geographic Region (2019-2024)

Table 29. Global Single-Mode OPS Lasers Revenue by Geographic Region (2019-2024) & (\$ millions)

Table 30. Global Single-Mode OPS Lasers Revenue Market Share by Geographic Region (2019-2024)

Table 31. Global Single-Mode OPS Lasers Sales by Country/Region (2019-2024) & (K Units)

Table 32. Global Single-Mode OPS Lasers Sales Market Share by Country/Region (2019-2024)

Table 33. Global Single-Mode OPS Lasers Revenue by Country/Region (2019-2024) & (\$ millions)

Table 34. Global Single-Mode OPS Lasers Revenue Market Share by Country/Region (2019-2024)

Table 35. Americas Single-Mode OPS Lasers Sales by Country (2019-2024) & (K Units)

Table 36. Americas Single-Mode OPS Lasers Sales Market Share by Country (2019-2024)

Table 37. Americas Single-Mode OPS Lasers Revenue by Country (2019-2024) & (\$ Millions)

Table 38. Americas Single-Mode OPS Lasers Revenue Market Share by Country (2019-2024)

Table 39. Americas Single-Mode OPS Lasers Sales by Type (2019-2024) & (K Units)

Table 40. Americas Single-Mode OPS Lasers Sales by Application (2019-2024) & (K Units)

Table 41. APAC Single-Mode OPS Lasers Sales by Region (2019-2024) & (K Units)

Table 42. APAC Single-Mode OPS Lasers Sales Market Share by Region (2019-2024)

Table 43. APAC Single-Mode OPS Lasers Revenue by Region (2019-2024) & (\$ Millions)

Table 44. APAC Single-Mode OPS Lasers Revenue Market Share by Region (2019-2024)

Table 45. APAC Single-Mode OPS Lasers Sales by Type (2019-2024) & (K Units)

Table 46. APAC Single-Mode OPS Lasers Sales by Application (2019-2024) & (K Units)

Table 47. Europe Single-Mode OPS Lasers Sales by Country (2019-2024) & (K Units)

Table 48. Europe Single-Mode OPS Lasers Sales Market Share by Country (2019-2024)

Table 49. Europe Single-Mode OPS Lasers Revenue by Country (2019-2024) & (\$ Millions)

Table 50. Europe Single-Mode OPS Lasers Revenue Market Share by Country (2019-2024)

Table 51. Europe Single-Mode OPS Lasers Sales by Type (2019-2024) & (K Units)

Table 52. Europe Single-Mode OPS Lasers Sales by Application (2019-2024) & (K Units)

Table 53. Middle East & Africa Single-Mode OPS Lasers Sales by Country (2019-2024) & (K Units)

Table 54. Middle East & Africa Single-Mode OPS Lasers Sales Market Share by Country (2019-2024)

Table 55. Middle East & Africa Single-Mode OPS Lasers Revenue by Country (2019-2024) & (\$ Millions)

Table 56. Middle East & Africa Single-Mode OPS Lasers Revenue Market Share by Country (2019-2024)

Table 57. Middle East & Africa Single-Mode OPS Lasers Sales by Type (2019-2024) & (K Units)

Table 58. Middle East & Africa Single-Mode OPS Lasers Sales by Application (2019-2024) & (K Units)

Table 59. Key Market Drivers & Growth Opportunities of Single-Mode OPS Lasers

Table 60. Key Market Challenges & Risks of Single-Mode OPS Lasers

Table 61. Key Industry Trends of Single-Mode OPS Lasers

Table 62. Single-Mode OPS Lasers Raw Material

Table 63. Key Suppliers of Raw Materials

Table 64. Single-Mode OPS Lasers Distributors List

Table 65. Single-Mode OPS Lasers Customer List

Table 66. Global Single-Mode OPS Lasers Sales Forecast by Region (2025-2030) & (K Units)

Table 67. Global Single-Mode OPS Lasers Revenue Forecast by Region (2025-2030) & (\$ millions)

Table 68. Americas Single-Mode OPS Lasers Sales Forecast by Country (2025-2030) & (K Units)

Table 69. Americas Single-Mode OPS Lasers Revenue Forecast by Country (2025-2030) & (\$ millions)

Table 70. APAC Single-Mode OPS Lasers Sales Forecast by Region (2025-2030) & (K Units)

Table 71. APAC Single-Mode OPS Lasers Revenue Forecast by Region (2025-2030) & (\$ millions)

Table 72. Europe Single-Mode OPS Lasers Sales Forecast by Country (2025-2030) & (K Units)

Table 73. Europe Single-Mode OPS Lasers Revenue Forecast by Country (2025-2030) & (\$ millions)

Table 74. Middle East & Africa Single-Mode OPS Lasers Sales Forecast by Country (2025-2030) & (K Units)

Table 75. Middle East & Africa Single-Mode OPS Lasers Revenue Forecast by Country (2025-2030) & (\$ millions)

Table 76. Global Single-Mode OPS Lasers Sales Forecast by Type (2025-2030) & (K Units)

Table 77. Global Single-Mode OPS Lasers Revenue Forecast by Type (2025-2030) & (\$ Millions)

Table 78. Global Single-Mode OPS Lasers Sales Forecast by Application (2025-2030) & (K Units)

Table 79. Global Single-Mode OPS Lasers Revenue Forecast by Application (2025-2030) & (\$ Millions)

Table 80. II-VI Basic Information, Single-Mode OPS Lasers Manufacturing Base, Sales Area and Its Competitors

Table 81. II-VI Single-Mode OPS Lasers Product Portfolios and Specifications

Table 82. II-VI Single-Mode OPS Lasers Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 83. II-VI Main Business

Table 84. II-VI Latest Developments

Table 85. Furukawa Electric Basic Information, Single-Mode OPS Lasers Manufacturing Base, Sales Area and Its Competitors

Table 86. Furukawa Electric Single-Mode OPS Lasers Product Portfolios and Specifications

Table 87. Furukawa Electric Single-Mode OPS Lasers Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 88. Furukawa Electric Main Business

Table 89. Furukawa Electric Latest Developments

Table 90. Polytec GmbH Basic Information, Single-Mode OPS Lasers Manufacturing Base, Sales Area and Its Competitors

Table 91. Polytec GmbH Single-Mode OPS Lasers Product Portfolios and Specifications

Table 92. Polytec GmbH Single-Mode OPS Lasers Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 93. Polytec GmbH Main Business

Table 94. Polytec GmbH Latest Developments

Table 95. Lumentum Basic Information, Single-Mode OPS Lasers Manufacturing Base, Sales Area and Its Competitors

Table 96. Lumentum Single-Mode OPS Lasers Product Portfolios and Specifications

Table 97. Lumentum Single-Mode OPS Lasers Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 98. Lumentum Main Business

Table 99. Lumentum Latest Developments

Table 100. 3SP Technologies Basic Information, Single-Mode OPS Lasers Manufacturing Base, Sales Area and Its Competitors

Table 101. 3SP Technologies Single-Mode OPS Lasers Product Portfolios and Specifications

Table 102. 3SP Technologies Single-Mode OPS Lasers Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 103. 3SP Technologies Main Business

Table 104. 3SP Technologies Latest Developments

Table 105. DoGain Laser Technology Basic Information, Single-Mode OPS Lasers Manufacturing Base, Sales Area and Its Competitors

Table 106. DoGain Laser Technology Single-Mode OPS Lasers Product Portfolios and Specifications

Table 107. DoGain Laser Technology Single-Mode OPS Lasers Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 108. DoGain Laser Technology Main Business

Table 109. DoGain Laser Technology Latest Developments

Table 110. Lumics Basic Information, Single-Mode OPS Lasers Manufacturing Base, Sales Area and Its Competitors

Table 111. Lumics Single-Mode OPS Lasers Product Portfolios and Specifications

Table 112. Lumics Single-Mode OPS Lasers Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 113. Lumics Main Business

Table 114. Lumics Latest Developments

Table 115. Oxxius Basic Information, Single-Mode OPS Lasers Manufacturing Base, Sales Area and Its Competitors

Table 116. Oxxius Single-Mode OPS Lasers Product Portfolios and Specifications

Table 117. Oxxius Single-Mode OPS Lasers Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 118. Oxxius Main Business

Table 119. Oxxius Latest Developments

Table 120. Thorlabs Basic Information, Single-Mode OPS Lasers Manufacturing Base, Sales Area and Its Competitors

Table 121. Thorlabs Single-Mode OPS Lasers Product Portfolios and Specifications

Table 122. Thorlabs Single-Mode OPS Lasers Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 123. Thorlabs Main Business

Table 124. Thorlabs Latest Developments

Table 125. InnoLas Basic Information, Single-Mode OPS Lasers Manufacturing Base, Sales Area and Its Competitors

Table 126. InnoLas Single-Mode OPS Lasers Product Portfolios and Specifications

Table 127. InnoLas Single-Mode OPS Lasers Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 128. InnoLas Main Business

Table 129. InnoLas Latest Developments

Table 130. Vexlum Basic Information, Single-Mode OPS Lasers Manufacturing Base, Sales Area and Its Competitors

Table 131. Vexlum Single-Mode OPS Lasers Product Portfolios and Specifications

Table 132. Vexlum Single-Mode OPS Lasers Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 133. Vexlum Main Business

Table 134. Vexlum Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Single-Mode OPS Lasers
- Figure 2. Single-Mode OPS Lasers Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Single-Mode OPS Lasers Sales Growth Rate 2019-2030 (K Units)
- Figure 7. Global Single-Mode OPS Lasers Revenue Growth Rate 2019-2030 (\$ Millions)
- Figure 8. Single-Mode OPS Lasers Sales by Region (2019, 2023 & 2030) & (\$ Millions)
- Figure 9. Product Picture of 976 nm
- Figure 10. Product Picture of 980 nm
- Figure 11. Product Picture of 1480 nm
- Figure 12. Product Picture of Others
- Figure 13. Global Single-Mode OPS Lasers Sales Market Share by Type in 2023
- Figure 14. Global Single-Mode OPS Lasers Revenue Market Share by Type (2019-2024)
- Figure 15. Single-Mode OPS Lasers Consumed in Metal Processing
- Figure 16. Global Single-Mode OPS Lasers Market: Metal Processing (2019-2024) & (K Units)
- Figure 17. Single-Mode OPS Lasers Consumed in Medical
- Figure 18. Global Single-Mode OPS Lasers Market: Medical (2019-2024) & (K Units)
- Figure 19. Single-Mode OPS Lasers Consumed in Communication
- Figure 20. Global Single-Mode OPS Lasers Market: Communication (2019-2024) & (K Units)
- Figure 21. Single-Mode OPS Lasers Consumed in Laboratory
- Figure 22. Global Single-Mode OPS Lasers Market: Laboratory (2019-2024) & (K Units)
- Figure 23. Global Single-Mode OPS Lasers Sales Market Share by Application (2023)
- Figure 24. Global Single-Mode OPS Lasers Revenue Market Share by Application in 2023
- Figure 25. Single-Mode OPS Lasers Sales Market by Company in 2023 (K Units)
- Figure 26. Global Single-Mode OPS Lasers Sales Market Share by Company in 2023
- Figure 27. Single-Mode OPS Lasers Revenue Market by Company in 2023 (\$ Million)
- Figure 28. Global Single-Mode OPS Lasers Revenue Market Share by Company in 2023
- Figure 29. Global Single-Mode OPS Lasers Sales Market Share by Geographic Region

(2019-2024)

Figure 30. Global Single-Mode OPS Lasers Revenue Market Share by Geographic Region in 2023

Figure 31. Americas Single-Mode OPS Lasers Sales 2019-2024 (K Units)

Figure 32. Americas Single-Mode OPS Lasers Revenue 2019-2024 (\$ Millions)

Figure 33. APAC Single-Mode OPS Lasers Sales 2019-2024 (K Units)

Figure 34. APAC Single-Mode OPS Lasers Revenue 2019-2024 (\$ Millions)

Figure 35. Europe Single-Mode OPS Lasers Sales 2019-2024 (K Units)

Figure 36. Europe Single-Mode OPS Lasers Revenue 2019-2024 (\$ Millions)

Figure 37. Middle East & Africa Single-Mode OPS Lasers Sales 2019-2024 (K Units)

Figure 38. Middle East & Africa Single-Mode OPS Lasers Revenue 2019-2024 (\$ Millions)

Figure 39. Americas Single-Mode OPS Lasers Sales Market Share by Country in 2023

Figure 40. Americas Single-Mode OPS Lasers Revenue Market Share by Country in 2023

Figure 41. Americas Single-Mode OPS Lasers Sales Market Share by Type (2019-2024)

Figure 42. Americas Single-Mode OPS Lasers Sales Market Share by Application (2019-2024)

Figure 43. United States Single-Mode OPS Lasers Revenue Growth 2019-2024 (\$ Millions)

Figure 44. Canada Single-Mode OPS Lasers Revenue Growth 2019-2024 (\$ Millions)

Figure 45. Mexico Single-Mode OPS Lasers Revenue Growth 2019-2024 (\$ Millions)

Figure 46. Brazil Single-Mode OPS Lasers Revenue Growth 2019-2024 (\$ Millions)

Figure 47. APAC Single-Mode OPS Lasers Sales Market Share by Region in 2023

Figure 48. APAC Single-Mode OPS Lasers Revenue Market Share by Regions in 2023

Figure 49. APAC Single-Mode OPS Lasers Sales Market Share by Type (2019-2024)

Figure 50. APAC Single-Mode OPS Lasers Sales Market Share by Application (2019-2024)

Figure 51. China Single-Mode OPS Lasers Revenue Growth 2019-2024 (\$ Millions)

Figure 52. Japan Single-Mode OPS Lasers Revenue Growth 2019-2024 (\$ Millions)

Figure 53. South Korea Single-Mode OPS Lasers Revenue Growth 2019-2024 (\$ Millions)

Figure 54. Southeast Asia Single-Mode OPS Lasers Revenue Growth 2019-2024 (\$ Millions)

Figure 55. India Single-Mode OPS Lasers Revenue Growth 2019-2024 (\$ Millions)

Figure 56. Australia Single-Mode OPS Lasers Revenue Growth 2019-2024 (\$ Millions)

Figure 57. China Taiwan Single-Mode OPS Lasers Revenue Growth 2019-2024 (\$ Millions)

- Figure 58. Europe Single-Mode OPS Lasers Sales Market Share by Country in 2023
- Figure 59. Europe Single-Mode OPS Lasers Revenue Market Share by Country in 2023
- Figure 60. Europe Single-Mode OPS Lasers Sales Market Share by Type (2019-2024)
- Figure 61. Europe Single-Mode OPS Lasers Sales Market Share by Application (2019-2024)
- Figure 62. Germany Single-Mode OPS Lasers Revenue Growth 2019-2024 (\$ Millions)
- Figure 63. France Single-Mode OPS Lasers Revenue Growth 2019-2024 (\$ Millions)
- Figure 64. UK Single-Mode OPS Lasers Revenue Growth 2019-2024 (\$ Millions)
- Figure 65. Italy Single-Mode OPS Lasers Revenue Growth 2019-2024 (\$ Millions)
- Figure 66. Russia Single-Mode OPS Lasers Revenue Growth 2019-2024 (\$ Millions)
- Figure 67. Middle East & Africa Single-Mode OPS Lasers Sales Market Share by Country in 2023
- Figure 68. Middle East & Africa Single-Mode OPS Lasers Revenue Market Share by Country in 2023
- Figure 69. Middle East & Africa Single-Mode OPS Lasers Sales Market Share by Type (2019-2024)
- Figure 70. Middle East & Africa Single-Mode OPS Lasers Sales Market Share by Application (2019-2024)
- Figure 71. Egypt Single-Mode OPS Lasers Revenue Growth 2019-2024 (\$ Millions)
- Figure 72. South Africa Single-Mode OPS Lasers Revenue Growth 2019-2024 (\$ Millions)
- Figure 73. Israel Single-Mode OPS Lasers Revenue Growth 2019-2024 (\$ Millions)
- Figure 74. Turkey Single-Mode OPS Lasers Revenue Growth 2019-2024 (\$ Millions)
- Figure 75. GCC Country Single-Mode OPS Lasers Revenue Growth 2019-2024 (\$ Millions)
- Figure 76. Manufacturing Cost Structure Analysis of Single-Mode OPS Lasers in 2023
- Figure 77. Manufacturing Process Analysis of Single-Mode OPS Lasers
- Figure 78. Industry Chain Structure of Single-Mode OPS Lasers
- Figure 79. Channels of Distribution
- Figure 80. Global Single-Mode OPS Lasers Sales Market Forecast by Region (2025-2030)
- Figure 81. Global Single-Mode OPS Lasers Revenue Market Share Forecast by Region (2025-2030)
- Figure 82. Global Single-Mode OPS Lasers Sales Market Share Forecast by Type (2025-2030)
- Figure 83. Global Single-Mode OPS Lasers Revenue Market Share Forecast by Type (2025-2030)
- Figure 84. Global Single-Mode OPS Lasers Sales Market Share Forecast by Application (2025-2030)

Figure 85. Global Single-Mode OPS Lasers Revenue Market Share Forecast by Application (2025-2030)

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