

Global Photonics Market 2024 by Company, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Photonics market size was valued at USD 680930 million in 2023 and is forecast to a readjusted size of USD 1038870 million by 2030 with a CAGR of 6.2% during review period.

Photonics is one of the fastest growing high-tech industries in the world today. It includes optical communications (e.g., fiber optics, lasers, and infrared links), optical imaging (e.g., spy and weather satellites, night vision, holography, flat screen display, and CCD video cameras), optical data storage and optical computing (e.g., CD's and DVD's), optical detectors (e.g., supermarket scanners, medical optics, and nondestructive evaluation of materials), lasers (e.g., welding lasers, laser surgery, laser shows, and laser rangefinders), spectroscopy (e.g., chemical and biological detection, anti-terror detection) and quantum optics (e.g., quantum teleportation, quantum cryptography, and single-photon optics).

The major players in global Photonics market include Coherent, IPG Photonics, Finisar Corporation, etc., and the market concentration rate is low. Asia-Pacific and North America are main markets, they occupy about 80% of the global market. Lasers is the main type, with a share about 30%. Displays is the main application, which holds a share about 20%.

The Global Info Research report includes an overview of the development of the Photonics industry chain, the market status of Consumer Electronics (Lasers, Waveguides), Displays (Lasers, Waveguides), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Photonics.

Regionally, the report analyzes the Photonics markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Photonics market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Photonics market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Photonics industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the revenue generated, and market share of different by Type (e.g., Lasers, Waveguides).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Photonics market.

Regional Analysis: The report involves examining the Photonics market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Photonics market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Photonics:

Company Analysis: Report covers individual Photonics players, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Photonics. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Consumer Electronics, Displays).

Technology Analysis: Report covers specific technologies relevant to Photonics. It assesses the current state, advancements, and potential future developments in Photonics areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Photonics market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Photonics market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of value.

Market segment by Type

Lasers

Waveguides

Optical Modulators

Optical Interconnects

Filters

Photo Detectors

Amplifiers

Others

Market segment by Application

Consumer Electronics

Displays

Safety & Defense Technology

Communication

Metrology

Sensing

Medical & Healthcare

High-performance Computing

Others

Market segment by players, this report covers

Coherent, Inc

IPG Photonics

Finisar Corporation

Hamamatsu Photonics

Lumentum

II-VI Incorporated

Infinera Corporation

NeoPhotonics

Luxtera, Inc

3SP Technologies

Innolume GmbH

Genia Photonics, Inc

Redfern Integrated Optics

Market segment by regions, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, UK, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Australia and Rest of Asia-Pacific)

South America (Brazil, Argentina and Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Photonics product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Photonics, with revenue, gross margin and global market share of Photonics from 2019 to 2024.

Chapter 3, the Photonics competitive situation, revenue and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and application, with consumption value and growth rate by Type, application, from 2019 to 2030.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2019 to 2024. and Photonics market forecast, by regions, type and application, with consumption value, from 2025 to 2030.

Chapter 11, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Photonics.

Chapter 13, to describe Photonics research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope of Photonics

1.2 Market Estimation Caveats and Base Year

1.3 Classification of Photonics by Type

1.3.1 Overview: Global Photonics Market Size by Type: 2019 Versus 2023 Versus 2030

1.3.2 Global Photonics Consumption Value Market Share by Type in 2023

1.3.3 Lasers

1.3.4 Waveguides

1.3.5 Optical Modulators

1.3.6 Optical Interconnects

1.3.7 Filters

1.3.8 Photo Detectors

1.3.9 Amplifiers

1.3.10 Others

1.4 Global Photonics Market by Application

1.4.1 Overview: Global Photonics Market Size by Application: 2019 Versus 2023 Versus 2030

1.4.2 Consumer Electronics

1.4.3 Displays

1.4.4 Safety & Defense Technology

1.4.5 Communication

1.4.6 Metrology

1.4.7 Sensing

1.4.8 Medical & Healthcare

1.4.9 High-performance Computing

1.4.10 Others

1.5 Global Photonics Market Size & Forecast

1.6 Global Photonics Market Size and Forecast by Region

1.6.1 Global Photonics Market Size by Region: 2019 VS 2023 VS 2030

1.6.2 Global Photonics Market Size by Region, (2019-2030)

1.6.3 North America Photonics Market Size and Prospect (2019-2030)

1.6.4 Europe Photonics Market Size and Prospect (2019-2030)

1.6.5 Asia-Pacific Photonics Market Size and Prospect (2019-2030)

1.6.6 South America Photonics Market Size and Prospect (2019-2030)

1.6.7 Middle East and Africa Photonics Market Size and Prospect (2019-2030)

2 COMPANY PROFILES

2.1 Coherent, Inc

2.1.1 Coherent, Inc Details

2.1.2 Coherent, Inc Major Business

2.1.3 Coherent, Inc Photonics Product and Solutions

2.1.4 Coherent, Inc Photonics Revenue, Gross Margin and Market Share (2019-2024)

2.1.5 Coherent, Inc Recent Developments and Future Plans

2.2 IPG Photonics

2.2.1 IPG Photonics Details

2.2.2 IPG Photonics Major Business

2.2.3 IPG Photonics Photonics Product and Solutions

2.2.4 IPG Photonics Photonics Revenue, Gross Margin and Market Share (2019-2024)

2.2.5 IPG Photonics Recent Developments and Future Plans

2.3 Finisar Corporation

2.3.1 Finisar Corporation Details

2.3.2 Finisar Corporation Major Business

2.3.3 Finisar Corporation Photonics Product and Solutions

2.3.4 Finisar Corporation Photonics Revenue, Gross Margin and Market Share (2019-2024)

2.3.5 Finisar Corporation Recent Developments and Future Plans

2.4 Hamamatsu Photonics

2.4.1 Hamamatsu Photonics Details

2.4.2 Hamamatsu Photonics Major Business

2.4.3 Hamamatsu Photonics Photonics Product and Solutions

2.4.4 Hamamatsu Photonics Photonics Revenue, Gross Margin and Market Share (2019-2024)

2.4.5 Hamamatsu Photonics Recent Developments and Future Plans

2.5 Lumentum

2.5.1 Lumentum Details

2.5.2 Lumentum Major Business

2.5.3 Lumentum Photonics Product and Solutions

2.5.4 Lumentum Photonics Revenue, Gross Margin and Market Share (2019-2024)

2.5.5 Lumentum Recent Developments and Future Plans

2.6 II-VI Incorporated

2.6.1 II-VI Incorporated Details

2.6.2 II-VI Incorporated Major Business

2.6.3 II-VI Incorporated Photonics Product and Solutions

2.6.4 II-VI Incorporated Photonics Revenue, Gross Margin and Market Share (2019-2024)

2.6.5 II-VI Incorporated Recent Developments and Future Plans

2.7 Infinera Corporation

2.7.1 Infinera Corporation Details

2.7.2 Infinera Corporation Major Business

2.7.3 Infinera Corporation Photonics Product and Solutions

2.7.4 Infinera Corporation Photonics Revenue, Gross Margin and Market Share (2019-2024)

2.7.5 Infinera Corporation Recent Developments and Future Plans

2.8 NeoPhotonics

2.8.1 NeoPhotonics Details

2.8.2 NeoPhotonics Major Business

2.8.3 NeoPhotonics Photonics Product and Solutions

2.8.4 NeoPhotonics Photonics Revenue, Gross Margin and Market Share (2019-2024)

2.8.5 NeoPhotonics Recent Developments and Future Plans

2.9 Luxtera, Inc

2.9.1 Luxtera, Inc Details

2.9.2 Luxtera, Inc Major Business

2.9.3 Luxtera, Inc Photonics Product and Solutions

2.9.4 Luxtera, Inc Photonics Revenue, Gross Margin and Market Share (2019-2024)

2.9.5 Luxtera, Inc Recent Developments and Future Plans

2.10 3SP Technologies

2.10.1 3SP Technologies Details

2.10.2 3SP Technologies Major Business

2.10.3 3SP Technologies Photonics Product and Solutions

2.10.4 3SP Technologies Photonics Revenue, Gross Margin and Market Share (2019-2024)

2.10.5 3SP Technologies Recent Developments and Future Plans

2.11 Innolume GmbH

2.11.1 Innolume GmbH Details

2.11.2 Innolume GmbH Major Business

2.11.3 Innolume GmbH Photonics Product and Solutions

2.11.4 Innolume GmbH Photonics Revenue, Gross Margin and Market Share (2019-2024)

2.11.5 Innolume GmbH Recent Developments and Future Plans

2.12 Genia Photonics, Inc

2.12.1 Genia Photonics, Inc Details

2.12.2 Genia Photonics, Inc Major Business

- 2.12.3 Genia Photonics, Inc Photonics Product and Solutions
- 2.12.4 Genia Photonics, Inc Photonics Revenue, Gross Margin and Market Share (2019-2024)
- 2.12.5 Genia Photonics, Inc Recent Developments and Future Plans
- 2.13 Redfern Integrated Optics
 - 2.13.1 Redfern Integrated Optics Details
 - 2.13.2 Redfern Integrated Optics Major Business
 - 2.13.3 Redfern Integrated Optics Photonics Product and Solutions
 - 2.13.4 Redfern Integrated Optics Photonics Revenue, Gross Margin and Market Share (2019-2024)
 - 2.13.5 Redfern Integrated Optics Recent Developments and Future Plans

3 MARKET COMPETITION, BY PLAYERS

- 3.1 Global Photonics Revenue and Share by Players (2019-2024)
- 3.2 Market Share Analysis (2023)
 - 3.2.1 Market Share of Photonics by Company Revenue
 - 3.2.2 Top 3 Photonics Players Market Share in 2023
 - 3.2.3 Top 6 Photonics Players Market Share in 2023
- 3.3 Photonics Market: Overall Company Footprint Analysis
 - 3.3.1 Photonics Market: Region Footprint
 - 3.3.2 Photonics Market: Company Product Type Footprint
 - 3.3.3 Photonics Market: Company Product Application Footprint
- 3.4 New Market Entrants and Barriers to Market Entry
- 3.5 Mergers, Acquisition, Agreements, and Collaborations

4 MARKET SIZE SEGMENT BY TYPE

- 4.1 Global Photonics Consumption Value and Market Share by Type (2019-2024)
- 4.2 Global Photonics Market Forecast by Type (2025-2030)

5 MARKET SIZE SEGMENT BY APPLICATION

- 5.1 Global Photonics Consumption Value Market Share by Application (2019-2024)
- 5.2 Global Photonics Market Forecast by Application (2025-2030)

6 NORTH AMERICA

- 6.1 North America Photonics Consumption Value by Type (2019-2030)

6.2 North America Photonics Consumption Value by Application (2019-2030)

6.3 North America Photonics Market Size by Country

6.3.1 North America Photonics Consumption Value by Country (2019-2030)

6.3.2 United States Photonics Market Size and Forecast (2019-2030)

6.3.3 Canada Photonics Market Size and Forecast (2019-2030)

6.3.4 Mexico Photonics Market Size and Forecast (2019-2030)

7 EUROPE

7.1 Europe Photonics Consumption Value by Type (2019-2030)

7.2 Europe Photonics Consumption Value by Application (2019-2030)

7.3 Europe Photonics Market Size by Country

7.3.1 Europe Photonics Consumption Value by Country (2019-2030)

7.3.2 Germany Photonics Market Size and Forecast (2019-2030)

7.3.3 France Photonics Market Size and Forecast (2019-2030)

7.3.4 United Kingdom Photonics Market Size and Forecast (2019-2030)

7.3.5 Russia Photonics Market Size and Forecast (2019-2030)

7.3.6 Italy Photonics Market Size and Forecast (2019-2030)

8 ASIA-PACIFIC

8.1 Asia-Pacific Photonics Consumption Value by Type (2019-2030)

8.2 Asia-Pacific Photonics Consumption Value by Application (2019-2030)

8.3 Asia-Pacific Photonics Market Size by Region

8.3.1 Asia-Pacific Photonics Consumption Value by Region (2019-2030)

8.3.2 China Photonics Market Size and Forecast (2019-2030)

8.3.3 Japan Photonics Market Size and Forecast (2019-2030)

8.3.4 South Korea Photonics Market Size and Forecast (2019-2030)

8.3.5 India Photonics Market Size and Forecast (2019-2030)

8.3.6 Southeast Asia Photonics Market Size and Forecast (2019-2030)

8.3.7 Australia Photonics Market Size and Forecast (2019-2030)

9 SOUTH AMERICA

9.1 South America Photonics Consumption Value by Type (2019-2030)

9.2 South America Photonics Consumption Value by Application (2019-2030)

9.3 South America Photonics Market Size by Country

9.3.1 South America Photonics Consumption Value by Country (2019-2030)

9.3.2 Brazil Photonics Market Size and Forecast (2019-2030)

9.3.3 Argentina Photonics Market Size and Forecast (2019-2030)

10 MIDDLE EAST & AFRICA

10.1 Middle East & Africa Photonics Consumption Value by Type (2019-2030)

10.2 Middle East & Africa Photonics Consumption Value by Application (2019-2030)

10.3 Middle East & Africa Photonics Market Size by Country

10.3.1 Middle East & Africa Photonics Consumption Value by Country (2019-2030)

10.3.2 Turkey Photonics Market Size and Forecast (2019-2030)

10.3.3 Saudi Arabia Photonics Market Size and Forecast (2019-2030)

10.3.4 UAE Photonics Market Size and Forecast (2019-2030)

11 MARKET DYNAMICS

11.1 Photonics Market Drivers

11.2 Photonics Market Restraints

11.3 Photonics Trends Analysis

11.4 Porters Five Forces Analysis

11.4.1 Threat of New Entrants

11.4.2 Bargaining Power of Suppliers

11.4.3 Bargaining Power of Buyers

11.4.4 Threat of Substitutes

11.4.5 Competitive Rivalry

12 INDUSTRY CHAIN ANALYSIS

12.1 Photonics Industry Chain

12.2 Photonics Upstream Analysis

12.3 Photonics Midstream Analysis

12.4 Photonics Downstream Analysis

13 RESEARCH FINDINGS AND CONCLUSION

14 APPENDIX

14.1 Methodology

14.2 Research Process and Data Source

14.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Photonics Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Table 2. Global Photonics Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Table 3. Global Photonics Consumption Value by Region (2019-2024) & (USD Million)

Table 4. Global Photonics Consumption Value by Region (2025-2030) & (USD Million)

Table 5. Coherent, Inc Company Information, Head Office, and Major Competitors

Table 6. Coherent, Inc Major Business

Table 7. Coherent, Inc Photonics Product and Solutions

Table 8. Coherent, Inc Photonics Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 9. Coherent, Inc Recent Developments and Future Plans

Table 10. IPG Photonics Company Information, Head Office, and Major Competitors

Table 11. IPG Photonics Major Business

Table 12. IPG Photonics Photonics Product and Solutions

Table 13. IPG Photonics Photonics Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 14. IPG Photonics Recent Developments and Future Plans

Table 15. Finisar Corporation Company Information, Head Office, and Major Competitors

Table 16. Finisar Corporation Major Business

Table 17. Finisar Corporation Photonics Product and Solutions

Table 18. Finisar Corporation Photonics Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 19. Finisar Corporation Recent Developments and Future Plans

Table 20. Hamamatsu Photonics Company Information, Head Office, and Major Competitors

Table 21. Hamamatsu Photonics Major Business

Table 22. Hamamatsu Photonics Photonics Product and Solutions

Table 23. Hamamatsu Photonics Photonics Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 24. Hamamatsu Photonics Recent Developments and Future Plans

Table 25. Lumentum Company Information, Head Office, and Major Competitors

Table 26. Lumentum Major Business

Table 27. Lumentum Photonics Product and Solutions

Table 28. Lumentum Photonics Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 29. Lumentum Recent Developments and Future Plans

Table 30. II-VI Incorporated Company Information, Head Office, and Major Competitors

Table 31. II-VI Incorporated Major Business

Table 32. II-VI Incorporated Photonics Product and Solutions

Table 33. II-VI Incorporated Photonics Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 34. II-VI Incorporated Recent Developments and Future Plans

Table 35. Infinera Corporation Company Information, Head Office, and Major Competitors

Table 36. Infinera Corporation Major Business

Table 37. Infinera Corporation Photonics Product and Solutions

Table 38. Infinera Corporation Photonics Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 39. Infinera Corporation Recent Developments and Future Plans

Table 40. NeoPhotonics Company Information, Head Office, and Major Competitors

Table 41. NeoPhotonics Major Business

Table 42. NeoPhotonics Photonics Product and Solutions

Table 43. NeoPhotonics Photonics Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 44. NeoPhotonics Recent Developments and Future Plans

Table 45. Luxtera, Inc Company Information, Head Office, and Major Competitors

Table 46. Luxtera, Inc Major Business

Table 47. Luxtera, Inc Photonics Product and Solutions

Table 48. Luxtera, Inc Photonics Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 49. Luxtera, Inc Recent Developments and Future Plans

Table 50. 3SP Technologies Company Information, Head Office, and Major Competitors

Table 51. 3SP Technologies Major Business

Table 52. 3SP Technologies Photonics Product and Solutions

Table 53. 3SP Technologies Photonics Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 54. 3SP Technologies Recent Developments and Future Plans

Table 55. Innolume GmbH Company Information, Head Office, and Major Competitors

Table 56. Innolume GmbH Major Business

Table 57. Innolume GmbH Photonics Product and Solutions

Table 58. Innolume GmbH Photonics Revenue (USD Million), Gross Margin and Market Share (2019-2024)

- Table 59. Innolume GmbH Recent Developments and Future Plans
- Table 60. Genia Photonics, Inc Company Information, Head Office, and Major Competitors
- Table 61. Genia Photonics, Inc Major Business
- Table 62. Genia Photonics, Inc Photonics Product and Solutions
- Table 63. Genia Photonics, Inc Photonics Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 64. Genia Photonics, Inc Recent Developments and Future Plans
- Table 65. Redfern Integrated Optics Company Information, Head Office, and Major Competitors
- Table 66. Redfern Integrated Optics Major Business
- Table 67. Redfern Integrated Optics Photonics Product and Solutions
- Table 68. Redfern Integrated Optics Photonics Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 69. Redfern Integrated Optics Recent Developments and Future Plans
- Table 70. Global Photonics Revenue (USD Million) by Players (2019-2024)
- Table 71. Global Photonics Revenue Share by Players (2019-2024)
- Table 72. Breakdown of Photonics by Company Type (Tier 1, Tier 2, and Tier 3)
- Table 73. Market Position of Players in Photonics, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2023
- Table 74. Head Office of Key Photonics Players
- Table 75. Photonics Market: Company Product Type Footprint
- Table 76. Photonics Market: Company Product Application Footprint
- Table 77. Photonics New Market Entrants and Barriers to Market Entry
- Table 78. Photonics Mergers, Acquisition, Agreements, and Collaborations
- Table 79. Global Photonics Consumption Value (USD Million) by Type (2019-2024)
- Table 80. Global Photonics Consumption Value Share by Type (2019-2024)
- Table 81. Global Photonics Consumption Value Forecast by Type (2025-2030)
- Table 82. Global Photonics Consumption Value by Application (2019-2024)
- Table 83. Global Photonics Consumption Value Forecast by Application (2025-2030)
- Table 84. North America Photonics Consumption Value by Type (2019-2024) & (USD Million)
- Table 85. North America Photonics Consumption Value by Type (2025-2030) & (USD Million)
- Table 86. North America Photonics Consumption Value by Application (2019-2024) & (USD Million)
- Table 87. North America Photonics Consumption Value by Application (2025-2030) & (USD Million)
- Table 88. North America Photonics Consumption Value by Country (2019-2024) &

(USD Million)

Table 89. North America Photonics Consumption Value by Country (2025-2030) & (USD Million)

Table 90. Europe Photonics Consumption Value by Type (2019-2024) & (USD Million)

Table 91. Europe Photonics Consumption Value by Type (2025-2030) & (USD Million)

Table 92. Europe Photonics Consumption Value by Application (2019-2024) & (USD Million)

Table 93. Europe Photonics Consumption Value by Application (2025-2030) & (USD Million)

Table 94. Europe Photonics Consumption Value by Country (2019-2024) & (USD Million)

Table 95. Europe Photonics Consumption Value by Country (2025-2030) & (USD Million)

Table 96. Asia-Pacific Photonics Consumption Value by Type (2019-2024) & (USD Million)

Table 97. Asia-Pacific Photonics Consumption Value by Type (2025-2030) & (USD Million)

Table 98. Asia-Pacific Photonics Consumption Value by Application (2019-2024) & (USD Million)

Table 99. Asia-Pacific Photonics Consumption Value by Application (2025-2030) & (USD Million)

Table 100. Asia-Pacific Photonics Consumption Value by Region (2019-2024) & (USD Million)

Table 101. Asia-Pacific Photonics Consumption Value by Region (2025-2030) & (USD Million)

Table 102. South America Photonics Consumption Value by Type (2019-2024) & (USD Million)

Table 103. South America Photonics Consumption Value by Type (2025-2030) & (USD Million)

Table 104. South America Photonics Consumption Value by Application (2019-2024) & (USD Million)

Table 105. South America Photonics Consumption Value by Application (2025-2030) & (USD Million)

Table 106. South America Photonics Consumption Value by Country (2019-2024) & (USD Million)

Table 107. South America Photonics Consumption Value by Country (2025-2030) & (USD Million)

Table 108. Middle East & Africa Photonics Consumption Value by Type (2019-2024) & (USD Million)

Table 109. Middle East & Africa Photonics Consumption Value by Type (2025-2030) & (USD Million)

Table 110. Middle East & Africa Photonics Consumption Value by Application (2019-2024) & (USD Million)

Table 111. Middle East & Africa Photonics Consumption Value by Application (2025-2030) & (USD Million)

Table 112. Middle East & Africa Photonics Consumption Value by Country (2019-2024) & (USD Million)

Table 113. Middle East & Africa Photonics Consumption Value by Country (2025-2030) & (USD Million)

Table 114. Photonics Raw Material

Table 115. Key Suppliers of Photonics Raw Materials

List Of Figures

LIST OF FIGURES

Figure 1. Photonics Picture

Figure 2. Global Photonics Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Figure 3. Global Photonics Consumption Value Market Share by Type in 2023

Figure 4. Lasers

Figure 5. Waveguides

Figure 6. Optical Modulators

Figure 7. Optical Interconnects

Figure 8. Filters

Figure 9. Photo Detectors

Figure 10. Amplifiers

Figure 11. Others

Figure 12. Global Photonics Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Figure 13. Photonics Consumption Value Market Share by Application in 2023

Figure 14. Consumer Electronics Picture

Figure 15. Displays Picture

Figure 16. Safety & Defense Technology Picture

Figure 17. Communication Picture

Figure 18. Metrology Picture

Figure 19. Sensing Picture

Figure 20. Medical & Healthcare Picture

Figure 21. High-performance Computing Picture

Figure 22. Others Picture

Figure 23. Global Photonics Consumption Value, (USD Million): 2019 & 2023 & 2030

Figure 24. Global Photonics Consumption Value and Forecast (2019-2030) & (USD Million)

Figure 25. Global Market Photonics Consumption Value (USD Million) Comparison by Region (2019 & 2023 & 2030)

Figure 26. Global Photonics Consumption Value Market Share by Region (2019-2030)

Figure 27. Global Photonics Consumption Value Market Share by Region in 2023

Figure 28. North America Photonics Consumption Value (2019-2030) & (USD Million)

Figure 29. Europe Photonics Consumption Value (2019-2030) & (USD Million)

Figure 30. Asia-Pacific Photonics Consumption Value (2019-2030) & (USD Million)

Figure 31. South America Photonics Consumption Value (2019-2030) & (USD Million)

Figure 32. Middle East and Africa Photonics Consumption Value (2019-2030) & (USD Million)

Figure 33. Global Photonics Revenue Share by Players in 2023

Figure 34. Photonics Market Share by Company Type (Tier 1, Tier 2 and Tier 3) in 2023

Figure 35. Global Top 3 Players Photonics Market Share in 2023

Figure 36. Global Top 6 Players Photonics Market Share in 2023

Figure 37. Global Photonics Consumption Value Share by Type (2019-2024)

Figure 38. Global Photonics Market Share Forecast by Type (2025-2030)

Figure 39. Global Photonics Consumption Value Share by Application (2019-2024)

Figure 40. Global Photonics Market Share Forecast by Application (2025-2030)

Figure 41. North America Photonics Consumption Value Market Share by Type (2019-2030)

Figure 42. North America Photonics Consumption Value Market Share by Application (2019-2030)

Figure 43. North America Photonics Consumption Value Market Share by Country (2019-2030)

Figure 44. United States Photonics Consumption Value (2019-2030) & (USD Million)

Figure 45. Canada Photonics Consumption Value (2019-2030) & (USD Million)

Figure 46. Mexico Photonics Consumption Value (2019-2030) & (USD Million)

Figure 47. Europe Photonics Consumption Value Market Share by Type (2019-2030)

Figure 48. Europe Photonics Consumption Value Market Share by Application (2019-2030)

Figure 49. Europe Photonics Consumption Value Market Share by Country (2019-2030)

Figure 50. Germany Photonics Consumption Value (2019-2030) & (USD Million)

Figure 51. France Photonics Consumption Value (2019-2030) & (USD Million)

Figure 52. United Kingdom Photonics Consumption Value (2019-2030) & (USD Million)

Figure 53. Russia Photonics Consumption Value (2019-2030) & (USD Million)

Figure 54. Italy Photonics Consumption Value (2019-2030) & (USD Million)

Figure 55. Asia-Pacific Photonics Consumption Value Market Share by Type (2019-2030)

Figure 56. Asia-Pacific Photonics Consumption Value Market Share by Application (2019-2030)

Figure 57. Asia-Pacific Photonics Consumption Value Market Share by Region (2019-2030)

Figure 58. China Photonics Consumption Value (2019-2030) & (USD Million)

Figure 59. Japan Photonics Consumption Value (2019-2030) & (USD Million)

Figure 60. South Korea Photonics Consumption Value (2019-2030) & (USD Million)

Figure 61. India Photonics Consumption Value (2019-2030) & (USD Million)

Figure 62. Southeast Asia Photonics Consumption Value (2019-2030) & (USD Million)

- Figure 63. Australia Photonics Consumption Value (2019-2030) & (USD Million)
- Figure 64. South America Photonics Consumption Value Market Share by Type (2019-2030)
- Figure 65. South America Photonics Consumption Value Market Share by Application (2019-2030)
- Figure 66. South America Photonics Consumption Value Market Share by Country (2019-2030)
- Figure 67. Brazil Photonics Consumption Value (2019-2030) & (USD Million)
- Figure 68. Argentina Photonics Consumption Value (2019-2030) & (USD Million)
- Figure 69. Middle East and Africa Photonics Consumption Value Market Share by Type (2019-2030)
- Figure 70. Middle East and Africa Photonics Consumption Value Market Share by Application (2019-2030)
- Figure 71. Middle East and Africa Photonics Consumption Value Market Share by Country (2019-2030)
- Figure 72. Turkey Photonics Consumption Value (2019-2030) & (USD Million)
- Figure 73. Saudi Arabia Photonics Consumption Value (2019-2030) & (USD Million)
- Figure 74. UAE Photonics Consumption Value (2019-2030) & (USD Million)
- Figure 75. Photonics Market Drivers
- Figure 76. Photonics Market Restraints
- Figure 77. Photonics Market Trends
- Figure 78. Porters Five Forces Analysis
- Figure 79. Manufacturing Cost Structure Analysis of Photonics in 2023
- Figure 80. Manufacturing Process Analysis of Photonics
- Figure 81. Photonics Industrial Chain
- Figure 82. Methodology
- Figure 83. Research Process and Data Source

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