

Global Far-Infrared Optics Market 2024 by Company, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G1D2B17B8211EN.html>

Date: May 2024

Pages: 158

Price: US\$ 3,480.00 (Single User License)

ID: G1D2B17B8211EN

Abstracts

Far-infrared optics refers specifically to optical components and systems used to operate and manage the far-infrared band (the wavelength range from approximately 8 microns to 1000 microns). These optical systems typically include lenses, mirrors, prisms, filters, and other optical components that are specifically designed to transmit, reflect, or refract radiation in the far-infrared band.

Far-infrared optics play an important role in many applications, such as the observation of cosmic rays in astronomy, thermal imaging in military and security fields, and the detection of greenhouse gases in environmental monitoring and earth science research. In addition, far-infrared technology is also widely used in fields such as materials science, biomedical imaging, and industrial process control.

According to our (Global Info Research) latest study, the global Far-Infrared Optics market size was valued at US\$ million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of %during review period.

This report is a detailed and comprehensive analysis for global Far-Infrared Optics market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2024, are provided.

Key Features:

Global Far-Infrared Optics market size and forecasts, in consumption value (\$ Million), 2019-2030

Global Far-Infrared Optics market size and forecasts by region and country, in consumption value (\$ Million), 2019-2030

Global Far-Infrared Optics market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2019-2030

Global Far-Infrared Optics market shares of main players, in revenue (\$ Million), 2019-2024

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Far-Infrared Optics

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Far-Infrared Optics market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Edmund Optics, Jenoptik, Alkor Technologies, Solaris Optics, Syntec Optics, Lattice Materials, LightPath Technologies, Thorlabs, Asphericon, Wavelength Opto-Electronic, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Far-Infrared Optics 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. This analysis can help you expand your business by targeting qualified niche markets.

Market segmentation

Far-Infrared Optics market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Far-Infrared Lens

Far-Infrared Filters

Others

Market segment by Application

Astronomy and Space Exploration

Thermal Imaging and Surveillance

Environmental Monitoring

Others

Market segment by players, this report covers

Edmund Optics

Jenoptik

Alkor Technologies

Solaris Optics

Syntec Optics

Lattice Materials

LightPath Technologies

Thorlabs

Asphericon

Wavelength Opto-Electronic

IRD Ceramics

Nanjing Wavelength Opto-Electronic

Foctek

Panasonic

Xenics

Paras Defence & Space Technologies

Konica Minolta

GRAND UNIFIED OPTICS

Matsubayashi Optics

Foshan Huaguo Optical

Phenix 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 and Rest of Asia-Pacific)

South America (Brazil, 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 Far-Infrared Optics product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the Far-Infrared Optics 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 by Application, with consumption value and growth rate by Type, by 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 Far-Infrared Optics market forecast, by regions, by Type and by Application, with consumption value, from 2024 to 2030.

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

Chapter 12, the key raw materials and key suppliers, and industry chain of Far-Infrared Optics.

Chapter 13, to describe Far-Infrared Optics research findings and conclusion.

Contents

1 MARKET OVERVIEW

- 1.1 Product Overview and Scope
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Classification of Far-Infrared Optics by Type
 - 1.3.1 Overview: Global Far-Infrared Optics Market Size by Type: 2019 Versus 2023 Versus 2030
 - 1.3.2 Global Far-Infrared Optics Consumption Value Market Share by Type in 2023
 - 1.3.3 Far-Infrared Lens
 - 1.3.4 Far-Infrared Filters
 - 1.3.5 Others
- 1.4 Global Far-Infrared Optics Market by Application
 - 1.4.1 Overview: Global Far-Infrared Optics Market Size by Application: 2019 Versus 2023 Versus 2030
 - 1.4.2 Astronomy and Space Exploration
 - 1.4.3 Thermal Imaging and Surveillance
 - 1.4.4 Environmental Monitoring
 - 1.4.5 Others
- 1.5 Global Far-Infrared Optics Market Size & Forecast
- 1.6 Global Far-Infrared Optics Market Size and Forecast by Region
 - 1.6.1 Global Far-Infrared Optics Market Size by Region: 2019 VS 2023 VS 2030
 - 1.6.2 Global Far-Infrared Optics Market Size by Region, (2019-2030)
 - 1.6.3 North America Far-Infrared Optics Market Size and Prospect (2019-2030)
 - 1.6.4 Europe Far-Infrared Optics Market Size and Prospect (2019-2030)
 - 1.6.5 Asia-Pacific Far-Infrared Optics Market Size and Prospect (2019-2030)
 - 1.6.6 South America Far-Infrared Optics Market Size and Prospect (2019-2030)
 - 1.6.7 Middle East & Africa Far-Infrared Optics Market Size and Prospect (2019-2030)

2 COMPANY PROFILES

- 2.1 Edmund Optics
 - 2.1.1 Edmund Optics Details
 - 2.1.2 Edmund Optics Major Business
 - 2.1.3 Edmund Optics Far-Infrared Optics Product and Solutions
 - 2.1.4 Edmund Optics Far-Infrared Optics Revenue, Gross Margin and Market Share (2019-2024)
 - 2.1.5 Edmund Optics Recent Developments and Future Plans

2.2 Jenoptik

2.2.1 Jenoptik Details

2.2.2 Jenoptik Major Business

2.2.3 Jenoptik Far-Infrared Optics Product and Solutions

2.2.4 Jenoptik Far-Infrared Optics Revenue, Gross Margin and Market Share (2019-2024)

2.2.5 Jenoptik Recent Developments and Future Plans

2.3 Alkor Technologies

2.3.1 Alkor Technologies Details

2.3.2 Alkor Technologies Major Business

2.3.3 Alkor Technologies Far-Infrared Optics Product and Solutions

2.3.4 Alkor Technologies Far-Infrared Optics Revenue, Gross Margin and Market Share (2019-2024)

2.3.5 Alkor Technologies Recent Developments and Future Plans

2.4 Solaris Optics

2.4.1 Solaris Optics Details

2.4.2 Solaris Optics Major Business

2.4.3 Solaris Optics Far-Infrared Optics Product and Solutions

2.4.4 Solaris Optics Far-Infrared Optics Revenue, Gross Margin and Market Share (2019-2024)

2.4.5 Solaris Optics Recent Developments and Future Plans

2.5 Syntec Optics

2.5.1 Syntec Optics Details

2.5.2 Syntec Optics Major Business

2.5.3 Syntec Optics Far-Infrared Optics Product and Solutions

2.5.4 Syntec Optics Far-Infrared Optics Revenue, Gross Margin and Market Share (2019-2024)

2.5.5 Syntec Optics Recent Developments and Future Plans

2.6 Lattice Materials

2.6.1 Lattice Materials Details

2.6.2 Lattice Materials Major Business

2.6.3 Lattice Materials Far-Infrared Optics Product and Solutions

2.6.4 Lattice Materials Far-Infrared Optics Revenue, Gross Margin and Market Share (2019-2024)

2.6.5 Lattice Materials Recent Developments and Future Plans

2.7 LightPath Technologies

2.7.1 LightPath Technologies Details

2.7.2 LightPath Technologies Major Business

2.7.3 LightPath Technologies Far-Infrared Optics Product and Solutions

2.7.4 LightPath Technologies Far-Infrared Optics Revenue, Gross Margin and Market Share (2019-2024)

2.7.5 LightPath Technologies Recent Developments and Future Plans

2.8 Thorlabs

2.8.1 Thorlabs Details

2.8.2 Thorlabs Major Business

2.8.3 Thorlabs Far-Infrared Optics Product and Solutions

2.8.4 Thorlabs Far-Infrared Optics Revenue, Gross Margin and Market Share (2019-2024)

2.8.5 Thorlabs Recent Developments and Future Plans

2.9 Asphericon

2.9.1 Asphericon Details

2.9.2 Asphericon Major Business

2.9.3 Asphericon Far-Infrared Optics Product and Solutions

2.9.4 Asphericon Far-Infrared Optics Revenue, Gross Margin and Market Share (2019-2024)

2.9.5 Asphericon Recent Developments and Future Plans

2.10 Wavelength Opto-Electronic

2.10.1 Wavelength Opto-Electronic Details

2.10.2 Wavelength Opto-Electronic Major Business

2.10.3 Wavelength Opto-Electronic Far-Infrared Optics Product and Solutions

2.10.4 Wavelength Opto-Electronic Far-Infrared Optics Revenue, Gross Margin and Market Share (2019-2024)

2.10.5 Wavelength Opto-Electronic Recent Developments and Future Plans

2.11 IRD Ceramics

2.11.1 IRD Ceramics Details

2.11.2 IRD Ceramics Major Business

2.11.3 IRD Ceramics Far-Infrared Optics Product and Solutions

2.11.4 IRD Ceramics Far-Infrared Optics Revenue, Gross Margin and Market Share (2019-2024)

2.11.5 IRD Ceramics Recent Developments and Future Plans

2.12 Nanjing Wavelength Opto-Electronic

2.12.1 Nanjing Wavelength Opto-Electronic Details

2.12.2 Nanjing Wavelength Opto-Electronic Major Business

2.12.3 Nanjing Wavelength Opto-Electronic Far-Infrared Optics Product and Solutions

2.12.4 Nanjing Wavelength Opto-Electronic Far-Infrared Optics Revenue, Gross Margin and Market Share (2019-2024)

2.12.5 Nanjing Wavelength Opto-Electronic Recent Developments and Future Plans

2.13 Foctek

- 2.13.1 Foctek Details
- 2.13.2 Foctek Major Business
- 2.13.3 Foctek Far-Infrared Optics Product and Solutions
- 2.13.4 Foctek Far-Infrared Optics Revenue, Gross Margin and Market Share (2019-2024)
- 2.13.5 Foctek Recent Developments and Future Plans
- 2.14 Panasonic
 - 2.14.1 Panasonic Details
 - 2.14.2 Panasonic Major Business
 - 2.14.3 Panasonic Far-Infrared Optics Product and Solutions
 - 2.14.4 Panasonic Far-Infrared Optics Revenue, Gross Margin and Market Share (2019-2024)
 - 2.14.5 Panasonic Recent Developments and Future Plans
- 2.15 Xenics
 - 2.15.1 Xenics Details
 - 2.15.2 Xenics Major Business
 - 2.15.3 Xenics Far-Infrared Optics Product and Solutions
 - 2.15.4 Xenics Far-Infrared Optics Revenue, Gross Margin and Market Share (2019-2024)
 - 2.15.5 Xenics Recent Developments and Future Plans
- 2.16 Paras Defence & Space Technologies
 - 2.16.1 Paras Defence & Space Technologies Details
 - 2.16.2 Paras Defence & Space Technologies Major Business
 - 2.16.3 Paras Defence & Space Technologies Far-Infrared Optics Product and Solutions
 - 2.16.4 Paras Defence & Space Technologies Far-Infrared Optics Revenue, Gross Margin and Market Share (2019-2024)
 - 2.16.5 Paras Defence & Space Technologies Recent Developments and Future Plans
- 2.17 Konica Minolta
 - 2.17.1 Konica Minolta Details
 - 2.17.2 Konica Minolta Major Business
 - 2.17.3 Konica Minolta Far-Infrared Optics Product and Solutions
 - 2.17.4 Konica Minolta Far-Infrared Optics Revenue, Gross Margin and Market Share (2019-2024)
 - 2.17.5 Konica Minolta Recent Developments and Future Plans
- 2.18 GRAND UNIFIED OPTICS
 - 2.18.1 GRAND UNIFIED OPTICS Details
 - 2.18.2 GRAND UNIFIED OPTICS Major Business
 - 2.18.3 GRAND UNIFIED OPTICS Far-Infrared Optics Product and Solutions

2.18.4 GRAND UNIFIED OPTICS Far-Infrared Optics Revenue, Gross Margin and Market Share (2019-2024)

2.18.5 GRAND UNIFIED OPTICS Recent Developments and Future Plans

2.19 Matsubayashi Optics

2.19.1 Matsubayashi Optics Details

2.19.2 Matsubayashi Optics Major Business

2.19.3 Matsubayashi Optics Far-Infrared Optics Product and Solutions

2.19.4 Matsubayashi Optics Far-Infrared Optics Revenue, Gross Margin and Market Share (2019-2024)

2.19.5 Matsubayashi Optics Recent Developments and Future Plans

2.20 Foshan Huaguo Optical

2.20.1 Foshan Huaguo Optical Details

2.20.2 Foshan Huaguo Optical Major Business

2.20.3 Foshan Huaguo Optical Far-Infrared Optics Product and Solutions

2.20.4 Foshan Huaguo Optical Far-Infrared Optics Revenue, Gross Margin and Market Share (2019-2024)

2.20.5 Foshan Huaguo Optical Recent Developments and Future Plans

2.21 Phenix Optics

2.21.1 Phenix Optics Details

2.21.2 Phenix Optics Major Business

2.21.3 Phenix Optics Far-Infrared Optics Product and Solutions

2.21.4 Phenix Optics Far-Infrared Optics Revenue, Gross Margin and Market Share (2019-2024)

2.21.5 Phenix Optics Recent Developments and Future Plans

3 MARKET COMPETITION, BY PLAYERS

3.1 Global Far-Infrared Optics Revenue and Share by Players (2019-2024)

3.2 Market Share Analysis (2023)

3.2.1 Market Share of Far-Infrared Optics by Company Revenue

3.2.2 Top 3 Far-Infrared Optics Players Market Share in 2023

3.2.3 Top 6 Far-Infrared Optics Players Market Share in 2023

3.3 Far-Infrared Optics Market: Overall Company Footprint Analysis

3.3.1 Far-Infrared Optics Market: Region Footprint

3.3.2 Far-Infrared Optics Market: Company Product Type Footprint

3.3.3 Far-Infrared Optics 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 Far-Infrared Optics Consumption Value and Market Share by Type (2019-2024)

4.2 Global Far-Infrared Optics Market Forecast by Type (2025-2030)

5 MARKET SIZE SEGMENT BY APPLICATION

5.1 Global Far-Infrared Optics Consumption Value Market Share by Application (2019-2024)

5.2 Global Far-Infrared Optics Market Forecast by Application (2025-2030)

6 NORTH AMERICA

6.1 North America Far-Infrared Optics Consumption Value by Type (2019-2030)

6.2 North America Far-Infrared Optics Market Size by Application (2019-2030)

6.3 North America Far-Infrared Optics Market Size by Country

6.3.1 North America Far-Infrared Optics Consumption Value by Country (2019-2030)

6.3.2 United States Far-Infrared Optics Market Size and Forecast (2019-2030)

6.3.3 Canada Far-Infrared Optics Market Size and Forecast (2019-2030)

6.3.4 Mexico Far-Infrared Optics Market Size and Forecast (2019-2030)

7 EUROPE

7.1 Europe Far-Infrared Optics Consumption Value by Type (2019-2030)

7.2 Europe Far-Infrared Optics Consumption Value by Application (2019-2030)

7.3 Europe Far-Infrared Optics Market Size by Country

7.3.1 Europe Far-Infrared Optics Consumption Value by Country (2019-2030)

7.3.2 Germany Far-Infrared Optics Market Size and Forecast (2019-2030)

7.3.3 France Far-Infrared Optics Market Size and Forecast (2019-2030)

7.3.4 United Kingdom Far-Infrared Optics Market Size and Forecast (2019-2030)

7.3.5 Russia Far-Infrared Optics Market Size and Forecast (2019-2030)

7.3.6 Italy Far-Infrared Optics Market Size and Forecast (2019-2030)

8 ASIA-PACIFIC

8.1 Asia-Pacific Far-Infrared Optics Consumption Value by Type (2019-2030)

8.2 Asia-Pacific Far-Infrared Optics Consumption Value by Application (2019-2030)

8.3 Asia-Pacific Far-Infrared Optics Market Size by Region

- 8.3.1 Asia-Pacific Far-Infrared Optics Consumption Value by Region (2019-2030)
- 8.3.2 China Far-Infrared Optics Market Size and Forecast (2019-2030)
- 8.3.3 Japan Far-Infrared Optics Market Size and Forecast (2019-2030)
- 8.3.4 South Korea Far-Infrared Optics Market Size and Forecast (2019-2030)
- 8.3.5 India Far-Infrared Optics Market Size and Forecast (2019-2030)
- 8.3.6 Southeast Asia Far-Infrared Optics Market Size and Forecast (2019-2030)
- 8.3.7 Australia Far-Infrared Optics Market Size and Forecast (2019-2030)

9 SOUTH AMERICA

- 9.1 South America Far-Infrared Optics Consumption Value by Type (2019-2030)
- 9.2 South America Far-Infrared Optics Consumption Value by Application (2019-2030)
- 9.3 South America Far-Infrared Optics Market Size by Country
 - 9.3.1 South America Far-Infrared Optics Consumption Value by Country (2019-2030)
 - 9.3.2 Brazil Far-Infrared Optics Market Size and Forecast (2019-2030)
 - 9.3.3 Argentina Far-Infrared Optics Market Size and Forecast (2019-2030)

10 MIDDLE EAST & AFRICA

- 10.1 Middle East & Africa Far-Infrared Optics Consumption Value by Type (2019-2030)
- 10.2 Middle East & Africa Far-Infrared Optics Consumption Value by Application (2019-2030)
- 10.3 Middle East & Africa Far-Infrared Optics Market Size by Country
 - 10.3.1 Middle East & Africa Far-Infrared Optics Consumption Value by Country (2019-2030)
 - 10.3.2 Turkey Far-Infrared Optics Market Size and Forecast (2019-2030)
 - 10.3.3 Saudi Arabia Far-Infrared Optics Market Size and Forecast (2019-2030)
 - 10.3.4 UAE Far-Infrared Optics Market Size and Forecast (2019-2030)

11 MARKET DYNAMICS

- 11.1 Far-Infrared Optics Market Drivers
- 11.2 Far-Infrared Optics Market Restraints
- 11.3 Far-Infrared Optics 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 Far-Infrared Optics Industry Chain

12.2 Far-Infrared Optics Upstream Analysis

12.3 Far-Infrared Optics Midstream Analysis

12.4 Far-Infrared Optics 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 Far-Infrared Optics Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Table 2. Global Far-Infrared Optics Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

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

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

Table 5. Edmund Optics Company Information, Head Office, and Major Competitors

Table 6. Edmund Optics Major Business

Table 7. Edmund Optics Far-Infrared Optics Product and Solutions

Table 8. Edmund Optics Far-Infrared Optics Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 9. Edmund Optics Recent Developments and Future Plans

Table 10. Jenoptik Company Information, Head Office, and Major Competitors

Table 11. Jenoptik Major Business

Table 12. Jenoptik Far-Infrared Optics Product and Solutions

Table 13. Jenoptik Far-Infrared Optics Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 14. Jenoptik Recent Developments and Future Plans

Table 15. Alkor Technologies Company Information, Head Office, and Major Competitors

Table 16. Alkor Technologies Major Business

Table 17. Alkor Technologies Far-Infrared Optics Product and Solutions

Table 18. Alkor Technologies Far-Infrared Optics Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 19. Solaris Optics Company Information, Head Office, and Major Competitors

Table 20. Solaris Optics Major Business

Table 21. Solaris Optics Far-Infrared Optics Product and Solutions

Table 22. Solaris Optics Far-Infrared Optics Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 23. Solaris Optics Recent Developments and Future Plans

Table 24. Syntec Optics Company Information, Head Office, and Major Competitors

Table 25. Syntec Optics Major Business

Table 26. Syntec Optics Far-Infrared Optics Product and Solutions

Table 27. Syntec Optics Far-Infrared Optics Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 28. Syntec Optics Recent Developments and Future Plans

Table 29. Lattice Materials Company Information, Head Office, and Major Competitors

Table 30. Lattice Materials Major Business

Table 31. Lattice Materials Far-Infrared Optics Product and Solutions

Table 32. Lattice Materials Far-Infrared Optics Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 33. Lattice Materials Recent Developments and Future Plans

Table 34. LightPath Technologies Company Information, Head Office, and Major Competitors

Table 35. LightPath Technologies Major Business

Table 36. LightPath Technologies Far-Infrared Optics Product and Solutions

Table 37. LightPath Technologies Far-Infrared Optics Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 38. LightPath Technologies Recent Developments and Future Plans

Table 39. Thorlabs Company Information, Head Office, and Major Competitors

Table 40. Thorlabs Major Business

Table 41. Thorlabs Far-Infrared Optics Product and Solutions

Table 42. Thorlabs Far-Infrared Optics Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 43. Thorlabs Recent Developments and Future Plans

Table 44. Asphericon Company Information, Head Office, and Major Competitors

Table 45. Asphericon Major Business

Table 46. Asphericon Far-Infrared Optics Product and Solutions

Table 47. Asphericon Far-Infrared Optics Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 48. Asphericon Recent Developments and Future Plans

Table 49. Wavelength Opto-Electronic Company Information, Head Office, and Major Competitors

Table 50. Wavelength Opto-Electronic Major Business

Table 51. Wavelength Opto-Electronic Far-Infrared Optics Product and Solutions

Table 52. Wavelength Opto-Electronic Far-Infrared Optics Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 53. Wavelength Opto-Electronic Recent Developments and Future Plans

Table 54. IRD Ceramics Company Information, Head Office, and Major Competitors

Table 55. IRD Ceramics Major Business

Table 56. IRD Ceramics Far-Infrared Optics Product and Solutions

Table 57. IRD Ceramics Far-Infrared Optics Revenue (USD Million), Gross Margin and

Market Share (2019-2024)

Table 58. IRD Ceramics Recent Developments and Future Plans

Table 59. Nanjing Wavelength Opto-Electronic Company Information, Head Office, and Major Competitors

Table 60. Nanjing Wavelength Opto-Electronic Major Business

Table 61. Nanjing Wavelength Opto-Electronic Far-Infrared Optics Product and Solutions

Table 62. Nanjing Wavelength Opto-Electronic Far-Infrared Optics Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 63. Nanjing Wavelength Opto-Electronic Recent Developments and Future Plans

Table 64. Foctek Company Information, Head Office, and Major Competitors

Table 65. Foctek Major Business

Table 66. Foctek Far-Infrared Optics Product and Solutions

Table 67. Foctek Far-Infrared Optics Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 68. Foctek Recent Developments and Future Plans

Table 69. Panasonic Company Information, Head Office, and Major Competitors

Table 70. Panasonic Major Business

Table 71. Panasonic Far-Infrared Optics Product and Solutions

Table 72. Panasonic Far-Infrared Optics Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 73. Panasonic Recent Developments and Future Plans

Table 74. Xenics Company Information, Head Office, and Major Competitors

Table 75. Xenics Major Business

Table 76. Xenics Far-Infrared Optics Product and Solutions

Table 77. Xenics Far-Infrared Optics Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 78. Xenics Recent Developments and Future Plans

Table 79. Paras Defence & Space Technologies Company Information, Head Office, and Major Competitors

Table 80. Paras Defence & Space Technologies Major Business

Table 81. Paras Defence & Space Technologies Far-Infrared Optics Product and Solutions

Table 82. Paras Defence & Space Technologies Far-Infrared Optics Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 83. Paras Defence & Space Technologies Recent Developments and Future Plans

Table 84. Konica Minolta Company Information, Head Office, and Major Competitors

Table 85. Konica Minolta Major Business

- Table 86. Konica Minolta Far-Infrared Optics Product and Solutions
- Table 87. Konica Minolta Far-Infrared Optics Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 88. Konica Minolta Recent Developments and Future Plans
- Table 89. GRAND UNIFIED OPTICS Company Information, Head Office, and Major Competitors
- Table 90. GRAND UNIFIED OPTICS Major Business
- Table 91. GRAND UNIFIED OPTICS Far-Infrared Optics Product and Solutions
- Table 92. GRAND UNIFIED OPTICS Far-Infrared Optics Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 93. GRAND UNIFIED OPTICS Recent Developments and Future Plans
- Table 94. Matsubayashi Optics Company Information, Head Office, and Major Competitors
- Table 95. Matsubayashi Optics Major Business
- Table 96. Matsubayashi Optics Far-Infrared Optics Product and Solutions
- Table 97. Matsubayashi Optics Far-Infrared Optics Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 98. Matsubayashi Optics Recent Developments and Future Plans
- Table 99. Foshan Huaguo Optical Company Information, Head Office, and Major Competitors
- Table 100. Foshan Huaguo Optical Major Business
- Table 101. Foshan Huaguo Optical Far-Infrared Optics Product and Solutions
- Table 102. Foshan Huaguo Optical Far-Infrared Optics Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 103. Foshan Huaguo Optical Recent Developments and Future Plans
- Table 104. Phenix Optics Company Information, Head Office, and Major Competitors
- Table 105. Phenix Optics Major Business
- Table 106. Phenix Optics Far-Infrared Optics Product and Solutions
- Table 107. Phenix Optics Far-Infrared Optics Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 108. Phenix Optics Recent Developments and Future Plans
- Table 109. Global Far-Infrared Optics Revenue (USD Million) by Players (2019-2024)
- Table 110. Global Far-Infrared Optics Revenue Share by Players (2019-2024)
- Table 111. Breakdown of Far-Infrared Optics by Company Type (Tier 1, Tier 2, and Tier 3)
- Table 112. Market Position of Players in Far-Infrared Optics, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2023
- Table 113. Head Office of Key Far-Infrared Optics Players
- Table 114. Far-Infrared Optics Market: Company Product Type Footprint

Table 115. Far-Infrared Optics Market: Company Product Application Footprint

Table 116. Far-Infrared Optics New Market Entrants and Barriers to Market Entry

Table 117. Far-Infrared Optics Mergers, Acquisition, Agreements, and Collaborations

Table 118. Global Far-Infrared Optics Consumption Value (USD Million) by Type (2019-2024)

Table 119. Global Far-Infrared Optics Consumption Value Share by Type (2019-2024)

Table 120. Global Far-Infrared Optics Consumption Value Forecast by Type (2025-2030)

Table 121. Global Far-Infrared Optics Consumption Value by Application (2019-2024)

Table 122. Global Far-Infrared Optics Consumption Value Forecast by Application (2025-2030)

Table 123. North America Far-Infrared Optics Consumption Value by Type (2019-2024) & (USD Million)

Table 124. North America Far-Infrared Optics Consumption Value by Type (2025-2030) & (USD Million)

Table 125. North America Far-Infrared Optics Consumption Value by Application (2019-2024) & (USD Million)

Table 126. North America Far-Infrared Optics Consumption Value by Application (2025-2030) & (USD Million)

Table 127. North America Far-Infrared Optics Consumption Value by Country (2019-2024) & (USD Million)

Table 128. North America Far-Infrared Optics Consumption Value by Country (2025-2030) & (USD Million)

Table 129. Europe Far-Infrared Optics Consumption Value by Type (2019-2024) & (USD Million)

Table 130. Europe Far-Infrared Optics Consumption Value by Type (2025-2030) & (USD Million)

Table 131. Europe Far-Infrared Optics Consumption Value by Application (2019-2024) & (USD Million)

Table 132. Europe Far-Infrared Optics Consumption Value by Application (2025-2030) & (USD Million)

Table 133. Europe Far-Infrared Optics Consumption Value by Country (2019-2024) & (USD Million)

Table 134. Europe Far-Infrared Optics Consumption Value by Country (2025-2030) & (USD Million)

Table 135. Asia-Pacific Far-Infrared Optics Consumption Value by Type (2019-2024) & (USD Million)

Table 136. Asia-Pacific Far-Infrared Optics Consumption Value by Type (2025-2030) & (USD Million)

Table 137. Asia-Pacific Far-Infrared Optics Consumption Value by Application (2019-2024) & (USD Million)

Table 138. Asia-Pacific Far-Infrared Optics Consumption Value by Application (2025-2030) & (USD Million)

Table 139. Asia-Pacific Far-Infrared Optics Consumption Value by Region (2019-2024) & (USD Million)

Table 140. Asia-Pacific Far-Infrared Optics Consumption Value by Region (2025-2030) & (USD Million)

Table 141. South America Far-Infrared Optics Consumption Value by Type (2019-2024) & (USD Million)

Table 142. South America Far-Infrared Optics Consumption Value by Type (2025-2030) & (USD Million)

Table 143. South America Far-Infrared Optics Consumption Value by Application (2019-2024) & (USD Million)

Table 144. South America Far-Infrared Optics Consumption Value by Application (2025-2030) & (USD Million)

Table 145. South America Far-Infrared Optics Consumption Value by Country (2019-2024) & (USD Million)

Table 146. South America Far-Infrared Optics Consumption Value by Country (2025-2030) & (USD Million)

Table 147. Middle East & Africa Far-Infrared Optics Consumption Value by Type (2019-2024) & (USD Million)

Table 148. Middle East & Africa Far-Infrared Optics Consumption Value by Type (2025-2030) & (USD Million)

Table 149. Middle East & Africa Far-Infrared Optics Consumption Value by Application (2019-2024) & (USD Million)

Table 150. Middle East & Africa Far-Infrared Optics Consumption Value by Application (2025-2030) & (USD Million)

Table 151. Middle East & Africa Far-Infrared Optics Consumption Value by Country (2019-2024) & (USD Million)

Table 152. Middle East & Africa Far-Infrared Optics Consumption Value by Country (2025-2030) & (USD Million)

Table 153. Global Key Players of Far-Infrared Optics Upstream (Raw Materials)

Table 154. Global Far-Infrared Optics Typical Customers

List of Figures

Figure 1. Far-Infrared Optics Picture

Figure 2. Global Far-Infrared Optics Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Figure 3. Global Far-Infrared Optics Consumption Value Market Share by Type in 2023

Figure 4. Far-Infrared Lens

Figure 5. Far-Infrared Filters

Figure 6. Others

Figure 7. Global Far-Infrared Optics Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Figure 8. Far-Infrared Optics Consumption Value Market Share by Application in 2023

Figure 9. Astronomy and Space Exploration Picture

Figure 10. Thermal Imaging and Surveillance Picture

Figure 11. Environmental Monitoring Picture

Figure 12. Others Picture

Figure 13. Global Far-Infrared Optics Consumption Value, (USD Million): 2019 & 2023 & 2030

Figure 14. Global Far-Infrared Optics Consumption Value and Forecast (2019-2030) & (USD Million)

Figure 15. Global Market Far-Infrared Optics Consumption Value (USD Million) Comparison by Region (2019 VS 2023 VS 2030)

Figure 16. Global Far-Infrared Optics Consumption Value Market Share by Region (2019-2030)

Figure 17. Global Far-Infrared Optics Consumption Value Market Share by Region in 2023

Figure 18. North America Far-Infrared Optics Consumption Value (2019-2030) & (USD Million)

Figure 19. Europe Far-Infrared Optics Consumption Value (2019-2030) & (USD Million)

Figure 20. Asia-Pacific Far-Infrared Optics Consumption Value (2019-2030) & (USD Million)

Figure 21. South America Far-Infrared Optics Consumption Value (2019-2030) & (USD Million)

Figure 22. Middle East & Africa Far-Infrared Optics Consumption Value (2019-2030) & (USD Million)

Figure 23. Company Three Recent Developments and Future Plans

Figure 24. Global Far-Infrared Optics Revenue Share by Players in 2023

Figure 25. Far-Infrared Optics Market Share by Company Type (Tier 1, Tier 2, and Tier 3) in 2023

Figure 26. Market Share of Far-Infrared Optics by Player Revenue in 2023

Figure 27. Top 3 Far-Infrared Optics Players Market Share in 2023

Figure 28. Top 6 Far-Infrared Optics Players Market Share in 2023

Figure 29. Global Far-Infrared Optics Consumption Value Share by Type (2019-2024)

Figure 30. Global Far-Infrared Optics Market Share Forecast by Type (2025-2030)

Figure 31. Global Far-Infrared Optics Consumption Value Share by Application

(2019-2024)

Figure 32. Global Far-Infrared Optics Market Share Forecast by Application

(2025-2030)

Figure 33. North America Far-Infrared Optics Consumption Value Market Share by Type

(2019-2030)

Figure 34. North America Far-Infrared Optics Consumption Value Market Share by Application (2019-2030)

Figure 35. North America Far-Infrared Optics Consumption Value Market Share by Country (2019-2030)

Figure 36. United States Far-Infrared Optics Consumption Value (2019-2030) & (USD Million)

Figure 37. Canada Far-Infrared Optics Consumption Value (2019-2030) & (USD Million)

Figure 38. Mexico Far-Infrared Optics Consumption Value (2019-2030) & (USD Million)

Figure 39. Europe Far-Infrared Optics Consumption Value Market Share by Type (2019-2030)

Figure 40. Europe Far-Infrared Optics Consumption Value Market Share by Application (2019-2030)

Figure 41. Europe Far-Infrared Optics Consumption Value Market Share by Country (2019-2030)

Figure 42. Germany Far-Infrared Optics Consumption Value (2019-2030) & (USD Million)

Figure 43. France Far-Infrared Optics Consumption Value (2019-2030) & (USD Million)

Figure 44. United Kingdom Far-Infrared Optics Consumption Value (2019-2030) & (USD Million)

Figure 45. Russia Far-Infrared Optics Consumption Value (2019-2030) & (USD Million)

Figure 46. Italy Far-Infrared Optics Consumption Value (2019-2030) & (USD Million)

Figure 47. Asia-Pacific Far-Infrared Optics Consumption Value Market Share by Type (2019-2030)

Figure 48. Asia-Pacific Far-Infrared Optics Consumption Value Market Share by Application (2019-2030)

Figure 49. Asia-Pacific Far-Infrared Optics Consumption Value Market Share by Region (2019-2030)

Figure 50. China Far-Infrared Optics Consumption Value (2019-2030) & (USD Million)

Figure 51. Japan Far-Infrared Optics Consumption Value (2019-2030) & (USD Million)

Figure 52. South Korea Far-Infrared Optics Consumption Value (2019-2030) & (USD Million)

Figure 53. India Far-Infrared Optics Consumption Value (2019-2030) & (USD Million)

Figure 54. Southeast Asia Far-Infrared Optics Consumption Value (2019-2030) & (USD Million)

Figure 55. Australia Far-Infrared Optics Consumption Value (2019-2030) & (USD Million)

Figure 56. South America Far-Infrared Optics Consumption Value Market Share by Type (2019-2030)

Figure 57. South America Far-Infrared Optics Consumption Value Market Share by Application (2019-2030)

Figure 58. South America Far-Infrared Optics Consumption Value Market Share by Country (2019-2030)

Figure 59. Brazil Far-Infrared Optics Consumption Value (2019-2030) & (USD Million)

Figure 60. Argentina Far-Infrared Optics Consumption Value (2019-2030) & (USD Million)

Figure 61. Middle East & Africa Far-Infrared Optics Consumption Value Market Share by Type (2019-2030)

Figure 62. Middle East & Africa Far-Infrared Optics Consumption Value Market Share by Application (2019-2030)

Figure 63. Middle East & Africa Far-Infrared Optics Consumption Value Market Share by Country (2019-2030)

Figure 64. Turkey Far-Infrared Optics Consumption Value (2019-2030) & (USD Million)

Figure 65. Saudi Arabia Far-Infrared Optics Consumption Value (2019-2030) & (USD Million)

Figure 66. UAE Far-Infrared Optics Consumption Value (2019-2030) & (USD Million)

Figure 67. Far-Infrared Optics Market Drivers

Figure 68. Far-Infrared Optics Market Restraints

Figure 69. Far-Infrared Optics Market Trends

Figure 70. Porters Five Forces Analysis

Figure 71. Far-Infrared Optics Industrial Chain

Figure 72. Methodology

Figure 73. Research Process and Data Source

I would like to order

Product name: Global Far-Infrared Optics Market 2024 by Company, Regions, Type and Application, Forecast to 2030

Product link: <https://marketpublishers.com/r/G1D2B17B8211EN.html>

Price: US\$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G1D2B17B8211EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

