

Global Short Wavelength Infra-Red (SWIR) Lenses Market Growth 2025-2031

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Abstracts

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The global FIB-SEM System market size is predicted to grow from US\$ 644 million in 2025 to US\$ 910 million in 2031; it is expected to grow at a CAGR of 5.9% from 2025 to 2031.

The FIB-SEM system is an electron microscope system that integrates focused electron beams and scanning ion beams. Focused ion beams can be used for micro processing of samples, scanning electron beams can be used for micro imaging and 'two-dimensional' characterization analysis of sample surface morphology, and real-time observation of the FIB processing process. Therefore, the FIB-SEM system can achieve fixed-point etching, deposition, cross-sectional cutting, TEM electron microscopy sample preparation, and micro/nano device preparation of samples Circuit repair, 3D structural characterization, etc.

Global key players of FIB-SEM System include Thermo Fisher Scientific Hitachi and Zeiss, etc. The top three players hold a share over 85%. Japan is the largest market. In terms of product type, Ga Ion Source is the largest segment, occupied for a share of 95%, and in terms of application, Material Science has a share about 40 percent.

Analysis of FIB-SEM system market drivers

1. Demand for semiconductor technology iteration

Advanced process node promotion:

3nm/2nm chip process requires atomic-level defect detection, and FIB-SEM supports nanoscale circuit editing and material composition analysis (such as EDS/EBSD integration) to help improve yield.

3D packaging technology (such as Chiplet) relies on FIB-SEM for through-silicon via (TSV) cross-sectional analysis and interface defect positioning.

Semiconductor material innovation:

The microstructure research of third-generation semiconductors (GaN, SiC) and two-dimensional materials (graphene) requires FIB-SEM to achieve atomic-level resolution imaging (

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 Short Wavelength Infra-Red (SWIR) Lenses Annual Sales 2020-2031
- 2.1.2 World Current & Future Analysis for Short Wavelength Infra-Red (SWIR) Lenses by Geographic Region, 2020, 2024 & 2031
- 2.1.3 World Current & Future Analysis for Short Wavelength Infra-Red (SWIR) Lenses by Country/Region, 2020, 2024 & 2031

2.2 Short Wavelength Infra-Red (SWIR) Lenses Segment by Type

- 2.2.1 Prime Lens
- 2.2.2 Zoom Lens

2.3 Short Wavelength Infra-Red (SWIR) Lenses Sales by Type

- 2.3.1 Global Short Wavelength Infra-Red (SWIR) Lenses Sales Market Share by Type (2020-2025)
- 2.3.2 Global Short Wavelength Infra-Red (SWIR) Lenses Revenue and Market Share by Type (2020-2025)
- 2.3.3 Global Short Wavelength Infra-Red (SWIR) Lenses Sale Price by Type (2020-2025)

2.4 Short Wavelength Infra-Red (SWIR) Lenses Segment by Application

- 2.4.1 Industrial
- 2.4.2 Military and Defense
- 2.4.3 Scientific Research
- 2.4.4 Others

2.5 Short Wavelength Infra-Red (SWIR) Lenses Sales by Application

- 2.5.1 Global Short Wavelength Infra-Red (SWIR) Lenses Sale Market Share by Application (2020-2025)

2.5.2 Global Short Wavelength Infra-Red (SWIR) Lenses Revenue and Market Share by Application (2020-2025)

2.5.3 Global Short Wavelength Infra-Red (SWIR) Lenses Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global Short Wavelength Infra-Red (SWIR) Lenses Breakdown Data by Company

3.1.1 Global Short Wavelength Infra-Red (SWIR) Lenses Annual Sales by Company (2020-2025)

3.1.2 Global Short Wavelength Infra-Red (SWIR) Lenses Sales Market Share by Company (2020-2025)

3.2 Global Short Wavelength Infra-Red (SWIR) Lenses Annual Revenue by Company (2020-2025)

3.2.1 Global Short Wavelength Infra-Red (SWIR) Lenses Revenue by Company (2020-2025)

3.2.2 Global Short Wavelength Infra-Red (SWIR) Lenses Revenue Market Share by Company (2020-2025)

3.3 Global Short Wavelength Infra-Red (SWIR) Lenses Sale Price by Company

3.4 Key Manufacturers Short Wavelength Infra-Red (SWIR) Lenses Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Short Wavelength Infra-Red (SWIR) Lenses Product Location Distribution

3.4.2 Players Short Wavelength Infra-Red (SWIR) Lenses Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR SHORT WAVELENGTH INFRA-RED (SWIR) LENSES BY GEOGRAPHIC REGION

4.1 World Historic Short Wavelength Infra-Red (SWIR) Lenses Market Size by Geographic Region (2020-2025)

4.1.1 Global Short Wavelength Infra-Red (SWIR) Lenses Annual Sales by Geographic Region (2020-2025)

4.1.2 Global Short Wavelength Infra-Red (SWIR) Lenses Annual Revenue by Geographic Region (2020-2025)

4.2 World Historic Short Wavelength Infra-Red (SWIR) Lenses Market Size by Country/Region (2020-2025)

4.2.1 Global Short Wavelength Infra-Red (SWIR) Lenses Annual Sales by Country/Region (2020-2025)

4.2.2 Global Short Wavelength Infra-Red (SWIR) Lenses Annual Revenue by Country/Region (2020-2025)

4.3 Americas Short Wavelength Infra-Red (SWIR) Lenses Sales Growth

4.4 APAC Short Wavelength Infra-Red (SWIR) Lenses Sales Growth

4.5 Europe Short Wavelength Infra-Red (SWIR) Lenses Sales Growth

4.6 Middle East & Africa Short Wavelength Infra-Red (SWIR) Lenses Sales Growth

5 AMERICAS

5.1 Americas Short Wavelength Infra-Red (SWIR) Lenses Sales by Country

5.1.1 Americas Short Wavelength Infra-Red (SWIR) Lenses Sales by Country (2020-2025)

5.1.2 Americas Short Wavelength Infra-Red (SWIR) Lenses Revenue by Country (2020-2025)

5.2 Americas Short Wavelength Infra-Red (SWIR) Lenses Sales by Type (2020-2025)

5.3 Americas Short Wavelength Infra-Red (SWIR) Lenses Sales by Application (2020-2025)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Short Wavelength Infra-Red (SWIR) Lenses Sales by Region

6.1.1 APAC Short Wavelength Infra-Red (SWIR) Lenses Sales by Region (2020-2025)

6.1.2 APAC Short Wavelength Infra-Red (SWIR) Lenses Revenue by Region (2020-2025)

6.2 APAC Short Wavelength Infra-Red (SWIR) Lenses Sales by Type (2020-2025)

6.3 APAC Short Wavelength Infra-Red (SWIR) Lenses Sales by Application (2020-2025)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe Short Wavelength Infra-Red (SWIR) Lenses by Country
 - 7.1.1 Europe Short Wavelength Infra-Red (SWIR) Lenses Sales by Country (2020-2025)
 - 7.1.2 Europe Short Wavelength Infra-Red (SWIR) Lenses Revenue by Country (2020-2025)
- 7.2 Europe Short Wavelength Infra-Red (SWIR) Lenses Sales by Type (2020-2025)
- 7.3 Europe Short Wavelength Infra-Red (SWIR) Lenses Sales by Application (2020-2025)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Short Wavelength Infra-Red (SWIR) Lenses by Country
 - 8.1.1 Middle East & Africa Short Wavelength Infra-Red (SWIR) Lenses Sales by Country (2020-2025)
 - 8.1.2 Middle East & Africa Short Wavelength Infra-Red (SWIR) Lenses Revenue by Country (2020-2025)
- 8.2 Middle East & Africa Short Wavelength Infra-Red (SWIR) Lenses Sales by Type (2020-2025)
- 8.3 Middle East & Africa Short Wavelength Infra-Red (SWIR) Lenses Sales by Application (2020-2025)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Short Wavelength Infra-Red (SWIR) Lenses

10.3 Manufacturing Process Analysis of Short Wavelength Infra-Red (SWIR) Lenses

10.4 Industry Chain Structure of Short Wavelength Infra-Red (SWIR) Lenses

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Short Wavelength Infra-Red (SWIR) Lenses Distributors

11.3 Short Wavelength Infra-Red (SWIR) Lenses Customer

12 WORLD FORECAST REVIEW FOR SHORT WAVELENGTH INFRA-RED (SWIR) LENSES BY GEOGRAPHIC REGION

12.1 Global Short Wavelength Infra-Red (SWIR) Lenses Market Size Forecast by Region

12.1.1 Global Short Wavelength Infra-Red (SWIR) Lenses Forecast by Region (2026-2031)

12.1.2 Global Short Wavelength Infra-Red (SWIR) Lenses Annual Revenue Forecast by Region (2026-2031)

12.2 Americas Forecast by Country (2026-2031)

12.3 APAC Forecast by Region (2026-2031)

12.4 Europe Forecast by Country (2026-2031)

12.5 Middle East & Africa Forecast by Country (2026-2031)

12.6 Global Short Wavelength Infra-Red (SWIR) Lenses Forecast by Type (2026-2031)

12.7 Global Short Wavelength Infra-Red (SWIR) Lenses Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 Schneider Group

13.1.1 Schneider Group Company Information

13.1.2 Schneider Group Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications

13.1.3 Schneider Group Short Wavelength Infra-Red (SWIR) Lenses Sales, Revenue, Price and Gross Margin (2020-2025)

13.1.4 Schneider Group Main Business Overview

13.1.5 Schneider Group Latest Developments

13.2 Nanjing Wavelength Opto-Electronic

13.2.1 Nanjing Wavelength Opto-Electronic Company Information

13.2.2 Nanjing Wavelength Opto-Electronic Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications

13.2.3 Nanjing Wavelength Opto-Electronic Short Wavelength Infra-Red (SWIR) Lenses Sales, Revenue, Price and Gross Margin (2020-2025)

13.2.4 Nanjing Wavelength Opto-Electronic Main Business Overview

13.2.5 Nanjing Wavelength Opto-Electronic Latest Developments

13.3 Fujian Forecam Optics

13.3.1 Fujian Forecam Optics Company Information

13.3.2 Fujian Forecam Optics Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications

13.3.3 Fujian Forecam Optics Short Wavelength Infra-Red (SWIR) Lenses Sales, Revenue, Price and Gross Margin (2020-2025)

13.3.4 Fujian Forecam Optics Main Business Overview

13.3.5 Fujian Forecam Optics Latest Developments

13.4 Onsemi (SWIR Vision Systems)

13.4.1 Onsemi (SWIR Vision Systems) Company Information

13.4.2 Onsemi (SWIR Vision Systems) Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications

13.4.3 Onsemi (SWIR Vision Systems) Short Wavelength Infra-Red (SWIR) Lenses Sales, Revenue, Price and Gross Margin (2020-2025)

13.4.4 Onsemi (SWIR Vision Systems) Main Business Overview

13.4.5 Onsemi (SWIR Vision Systems) Latest Developments

13.5 Edmund Optics

13.5.1 Edmund Optics Company Information

13.5.2 Edmund Optics Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications

13.5.3 Edmund Optics Short Wavelength Infra-Red (SWIR) Lenses Sales, Revenue, Price and Gross Margin (2020-2025)

13.5.4 Edmund Optics Main Business Overview

- 13.5.5 Edmund Optics Latest Developments
- 13.6 G&H (StingRay Optics)
 - 13.6.1 G&H (StingRay Optics) Company Information
 - 13.6.2 G&H (StingRay Optics) Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications
 - 13.6.3 G&H (StingRay Optics) Short Wavelength Infra-Red (SWIR) Lenses Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.6.4 G&H (StingRay Optics) Main Business Overview
 - 13.6.5 G&H (StingRay Optics) Latest Developments
- 13.7 AMETEK (Navitar)
 - 13.7.1 AMETEK (Navitar) Company Information
 - 13.7.2 AMETEK (Navitar) Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications
 - 13.7.3 AMETEK (Navitar) Short Wavelength Infra-Red (SWIR) Lenses Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.7.4 AMETEK (Navitar) Main Business Overview
 - 13.7.5 AMETEK (Navitar) Latest Developments
- 13.8 Space Inc.
 - 13.8.1 Space Inc. Company Information
 - 13.8.2 Space Inc. Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications
 - 13.8.3 Space Inc. Short Wavelength Infra-Red (SWIR) Lenses Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.8.4 Space Inc. Main Business Overview
 - 13.8.5 Space Inc. Latest Developments
- 13.9 Opto Engineering
 - 13.9.1 Opto Engineering Company Information
 - 13.9.2 Opto Engineering Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications
 - 13.9.3 Opto Engineering Short Wavelength Infra-Red (SWIR) Lenses Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.9.4 Opto Engineering Main Business Overview
 - 13.9.5 Opto Engineering Latest Developments
- 13.10 Moritex
 - 13.10.1 Moritex Company Information
 - 13.10.2 Moritex Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications
 - 13.10.3 Moritex Short Wavelength Infra-Red (SWIR) Lenses Sales, Revenue, Price and Gross Margin (2020-2025)

- 13.10.4 Moritex Main Business Overview
- 13.10.5 Moritex Latest Developments
- 13.11 SmartMore(Inside)
 - 13.11.1 SmartMore(Inside) Company Information
 - 13.11.2 SmartMore(Inside) Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications
 - 13.11.3 SmartMore(Inside) Short Wavelength Infra-Red (SWIR) Lenses Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.11.4 SmartMore(Inside) Main Business Overview
 - 13.11.5 SmartMore(Inside) Latest Developments
- 13.12 Kowa Company
 - 13.12.1 Kowa Company Company Information
 - 13.12.2 Kowa Company Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications
 - 13.12.3 Kowa Company Short Wavelength Infra-Red (SWIR) Lenses Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.12.4 Kowa Company Main Business Overview
 - 13.12.5 Kowa Company Latest Developments
- 13.13 Shibuya Optical
 - 13.13.1 Shibuya Optical Company Information
 - 13.13.2 Shibuya Optical Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications
 - 13.13.3 Shibuya Optical Short Wavelength Infra-Red (SWIR) Lenses Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.13.4 Shibuya Optical Main Business Overview
 - 13.13.5 Shibuya Optical Latest Developments
- 13.14 Seiwa Optical
 - 13.14.1 Seiwa Optical Company Information
 - 13.14.2 Seiwa Optical Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications
 - 13.14.3 Seiwa Optical Short Wavelength Infra-Red (SWIR) Lenses Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.14.4 Seiwa Optical Main Business Overview
 - 13.14.5 Seiwa Optical Latest Developments
- 13.15 Beck Optronic Solutions
 - 13.15.1 Beck Optronic Solutions Company Information
 - 13.15.2 Beck Optronic Solutions Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications
 - 13.15.3 Beck Optronic Solutions Short Wavelength Infra-Red (SWIR) Lenses Sales,

Revenue, Price and Gross Margin (2020-2025)

13.15.4 Beck Optronic Solutions Main Business Overview

13.15.5 Beck Optronic Solutions Latest Developments

13.16 Resolve Optics

13.16.1 Resolve Optics Company Information

13.16.2 Resolve Optics Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications

13.16.3 Resolve Optics Short Wavelength Infra-Red (SWIR) Lenses Sales, Revenue, Price and Gross Margin (2020-2025)

13.16.4 Resolve Optics Main Business Overview

13.16.5 Resolve Optics Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Short Wavelength Infra-Red (SWIR) Lenses Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Table 2. Short Wavelength Infra-Red (SWIR) Lenses Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)
- Table 3. Major Players of Prime Lens
- Table 4. Major Players of Zoom Lens
- Table 5. Global Short Wavelength Infra-Red (SWIR) Lenses Sales by Type (2020-2025) & (Units)
- Table 6. Global Short Wavelength Infra-Red (SWIR) Lenses Sales Market Share by Type (2020-2025)
- Table 7. Global Short Wavelength Infra-Red (SWIR) Lenses Revenue by Type (2020-2025) & (\$ million)
- Table 8. Global Short Wavelength Infra-Red (SWIR) Lenses Revenue Market Share by Type (2020-2025)
- Table 9. Global Short Wavelength Infra-Red (SWIR) Lenses Sale Price by Type (2020-2025) & (K USD/Unit)
- Table 10. Global Short Wavelength Infra-Red (SWIR) Lenses Sale by Application (2020-2025) & (Units)
- Table 11. Global Short Wavelength Infra-Red (SWIR) Lenses Sale Market Share by Application (2020-2025)
- Table 12. Global Short Wavelength Infra-Red (SWIR) Lenses Revenue by Application (2020-2025) & (\$ million)
- Table 13. Global Short Wavelength Infra-Red (SWIR) Lenses Revenue Market Share by Application (2020-2025)
- Table 14. Global Short Wavelength Infra-Red (SWIR) Lenses Sale Price by Application (2020-2025) & (K USD/Unit)
- Table 15. Global Short Wavelength Infra-Red (SWIR) Lenses Sales by Company (2020-2025) & (Units)
- Table 16. Global Short Wavelength Infra-Red (SWIR) Lenses Sales Market Share by Company (2020-2025)
- Table 17. Global Short Wavelength Infra-Red (SWIR) Lenses Revenue by Company (2020-2025) & (\$ millions)
- Table 18. Global Short Wavelength Infra-Red (SWIR) Lenses Revenue Market Share by Company (2020-2025)
- Table 19. Global Short Wavelength Infra-Red (SWIR) Lenses Sale Price by Company

(2020-2025) & (K USD/Unit)

Table 20. Key Manufacturers Short Wavelength Infra-Red (SWIR) Lenses Producing Area Distribution and Sales Area

Table 21. Players Short Wavelength Infra-Red (SWIR) Lenses Products Offered

Table 22. Short Wavelength Infra-Red (SWIR) Lenses Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

Table 23. New Products and Potential Entrants

Table 24. Market M&A Activity & Strategy

Table 25. Global Short Wavelength Infra-Red (SWIR) Lenses Sales by Geographic Region (2020-2025) & (Units)

Table 26. Global Short Wavelength Infra-Red (SWIR) Lenses Sales Market Share Geographic Region (2020-2025)

Table 27. Global Short Wavelength Infra-Red (SWIR) Lenses Revenue by Geographic Region (2020-2025) & (\$ millions)

Table 28. Global Short Wavelength Infra-Red (SWIR) Lenses Revenue Market Share by Geographic Region (2020-2025)

Table 29. Global Short Wavelength Infra-Red (SWIR) Lenses Sales by Country/Region (2020-2025) & (Units)

Table 30. Global Short Wavelength Infra-Red (SWIR) Lenses Sales Market Share by Country/Region (2020-2025)

Table 31. Global Short Wavelength Infra-Red (SWIR) Lenses Revenue by Country/Region (2020-2025) & (\$ millions)

Table 32. Global Short Wavelength Infra-Red (SWIR) Lenses Revenue Market Share by Country/Region (2020-2025)

Table 33. Americas Short Wavelength Infra-Red (SWIR) Lenses Sales by Country (2020-2025) & (Units)

Table 34. Americas Short Wavelength Infra-Red (SWIR) Lenses Sales Market Share by Country (2020-2025)

Table 35. Americas Short Wavelength Infra-Red (SWIR) Lenses Revenue by Country (2020-2025) & (\$ millions)

Table 36. Americas Short Wavelength Infra-Red (SWIR) Lenses Sales by Type (2020-2025) & (Units)

Table 37. Americas Short Wavelength Infra-Red (SWIR) Lenses Sales by Application (2020-2025) & (Units)

Table 38. APAC Short Wavelength Infra-Red (SWIR) Lenses Sales by Region (2020-2025) & (Units)

Table 39. APAC Short Wavelength Infra-Red (SWIR) Lenses Sales Market Share by Region (2020-2025)

Table 40. APAC Short Wavelength Infra-Red (SWIR) Lenses Revenue by Region

(2020-2025) & (\$ millions)

Table 41. APAC Short Wavelength Infra-Red (SWIR) Lenses Sales by Type

(2020-2025) & (Units)

Table 42. APAC Short Wavelength Infra-Red (SWIR) Lenses Sales by Application

(2020-2025) & (Units)

Table 43. Europe Short Wavelength Infra-Red (SWIR) Lenses Sales by Country

(2020-2025) & (Units)

Table 44. Europe Short Wavelength Infra-Red (SWIR) Lenses Revenue by Country

(2020-2025) & (\$ millions)

Table 45. Europe Short Wavelength Infra-Red (SWIR) Lenses Sales by Type

(2020-2025) & (Units)

Table 46. Europe Short Wavelength Infra-Red (SWIR) Lenses Sales by Application

(2020-2025) & (Units)

Table 47. Middle East & Africa Short Wavelength Infra-Red (SWIR) Lenses Sales by Country (2020-2025) & (Units)

Table 48. Middle East & Africa Short Wavelength Infra-Red (SWIR) Lenses Revenue Market Share by Country (2020-2025)

Table 49. Middle East & Africa Short Wavelength Infra-Red (SWIR) Lenses Sales by Type (2020-2025) & (Units)

Table 50. Middle East & Africa Short Wavelength Infra-Red (SWIR) Lenses Sales by Application (2020-2025) & (Units)

Table 51. Key Market Drivers & Growth Opportunities of Short Wavelength Infra-Red (SWIR) Lenses

Table 52. Key Market Challenges & Risks of Short Wavelength Infra-Red (SWIR) Lenses

Table 53. Key Industry Trends of Short Wavelength Infra-Red (SWIR) Lenses

Table 54. Short Wavelength Infra-Red (SWIR) Lenses Raw Material

Table 55. Key Suppliers of Raw Materials

Table 56. Short Wavelength Infra-Red (SWIR) Lenses Distributors List

Table 57. Short Wavelength Infra-Red (SWIR) Lenses Customer List

Table 58. Global Short Wavelength Infra-Red (SWIR) Lenses Sales Forecast by Region (2026-2031) & (Units)

Table 59. Global Short Wavelength Infra-Red (SWIR) Lenses Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 60. Americas Short Wavelength Infra-Red (SWIR) Lenses Sales Forecast by Country (2026-2031) & (Units)

Table 61. Americas Short Wavelength Infra-Red (SWIR) Lenses Annual Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 62. APAC Short Wavelength Infra-Red (SWIR) Lenses Sales Forecast by Region

(2026-2031) & (Units)

Table 63. APAC Short Wavelength Infra-Red (SWIR) Lenses Annual Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 64. Europe Short Wavelength Infra-Red (SWIR) Lenses Sales Forecast by Country (2026-2031) & (Units)

Table 65. Europe Short Wavelength Infra-Red (SWIR) Lenses Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 66. Middle East & Africa Short Wavelength Infra-Red (SWIR) Lenses Sales Forecast by Country (2026-2031) & (Units)

Table 67. Middle East & Africa Short Wavelength Infra-Red (SWIR) Lenses Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 68. Global Short Wavelength Infra-Red (SWIR) Lenses Sales Forecast by Type (2026-2031) & (Units)

Table 69. Global Short Wavelength Infra-Red (SWIR) Lenses Revenue Forecast by Type (2026-2031) & (\$ millions)

Table 70. Global Short Wavelength Infra-Red (SWIR) Lenses Sales Forecast by Application (2026-2031) & (Units)

Table 71. Global Short Wavelength Infra-Red (SWIR) Lenses Revenue Forecast by Application (2026-2031) & (\$ millions)

Table 72. Schneider Group Basic Information, Short Wavelength Infra-Red (SWIR) Lenses Manufacturing Base, Sales Area and Its Competitors

Table 73. Schneider Group Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications

Table 74. Schneider Group Short Wavelength Infra-Red (SWIR) Lenses Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2020-2025)

Table 75. Schneider Group Main Business

Table 76. Schneider Group Latest Developments

Table 77. Nanjing Wavelength Opto-Electronic Basic Information, Short Wavelength Infra-Red (SWIR) Lenses Manufacturing Base, Sales Area and Its Competitors

Table 78. Nanjing Wavelength Opto-Electronic Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications

Table 79. Nanjing Wavelength Opto-Electronic Short Wavelength Infra-Red (SWIR) Lenses Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2020-2025)

Table 80. Nanjing Wavelength Opto-Electronic Main Business

Table 81. Nanjing Wavelength Opto-Electronic Latest Developments

Table 82. Fujian Forecam Optics Basic Information, Short Wavelength Infra-Red (SWIR) Lenses Manufacturing Base, Sales Area and Its Competitors

Table 83. Fujian Forecam Optics Short Wavelength Infra-Red (SWIR) Lenses Product

Portfolios and Specifications

Table 84. Fujian Forecam Optics Short Wavelength Infra-Red (SWIR) Lenses Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2020-2025)

Table 85. Fujian Forecam Optics Main Business

Table 86. Fujian Forecam Optics Latest Developments

Table 87. Onsemi (SWIR Vision Systems) Basic Information, Short Wavelength Infra-Red (SWIR) Lenses Manufacturing Base, Sales Area and Its Competitors

Table 88. Onsemi (SWIR Vision Systems) Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications

Table 89. Onsemi (SWIR Vision Systems) Short Wavelength Infra-Red (SWIR) Lenses Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2020-2025)

Table 90. Onsemi (SWIR Vision Systems) Main Business

Table 91. Onsemi (SWIR Vision Systems) Latest Developments

Table 92. Edmund Optics Basic Information, Short Wavelength Infra-Red (SWIR) Lenses Manufacturing Base, Sales Area and Its Competitors

Table 93. Edmund Optics Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications

Table 94. Edmund Optics Short Wavelength Infra-Red (SWIR) Lenses Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2020-2025)

Table 95. Edmund Optics Main Business

Table 96. Edmund Optics Latest Developments

Table 97. G&H (StingRay Optics) Basic Information, Short Wavelength Infra-Red (SWIR) Lenses Manufacturing Base, Sales Area and Its Competitors

Table 98. G&H (StingRay Optics) Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications

Table 99. G&H (StingRay Optics) Short Wavelength Infra-Red (SWIR) Lenses Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2020-2025)

Table 100. G&H (StingRay Optics) Main Business

Table 101. G&H (StingRay Optics) Latest Developments

Table 102. AMETEK (Navitar) Basic Information, Short Wavelength Infra-Red (SWIR) Lenses Manufacturing Base, Sales Area and Its Competitors

Table 103. AMETEK (Navitar) Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications

Table 104. AMETEK (Navitar) Short Wavelength Infra-Red (SWIR) Lenses Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2020-2025)

Table 105. AMETEK (Navitar) Main Business

Table 106. AMETEK (Navitar) Latest Developments

Table 107. Space Inc. Basic Information, Short Wavelength Infra-Red (SWIR) Lenses Manufacturing Base, Sales Area and Its Competitors

Table 108. Space Inc. Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications

Table 109. Space Inc. Short Wavelength Infra-Red (SWIR) Lenses Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2020-2025)

Table 110. Space Inc. Main Business

Table 111. Space Inc. Latest Developments

Table 112. Opto Engineering Basic Information, Short Wavelength Infra-Red (SWIR) Lenses Manufacturing Base, Sales Area and Its Competitors

Table 113. Opto Engineering Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications

Table 114. Opto Engineering Short Wavelength Infra-Red (SWIR) Lenses Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2020-2025)

Table 115. Opto Engineering Main Business

Table 116. Opto Engineering Latest Developments

Table 117. Moritex Basic Information, Short Wavelength Infra-Red (SWIR) Lenses Manufacturing Base, Sales Area and Its Competitors

Table 118. Moritex Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications

Table 119. Moritex Short Wavelength Infra-Red (SWIR) Lenses Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2020-2025)

Table 120. Moritex Main Business

Table 121. Moritex Latest Developments

Table 122. SmartMore(Inside) Basic Information, Short Wavelength Infra-Red (SWIR) Lenses Manufacturing Base, Sales Area and Its Competitors

Table 123. SmartMore(Inside) Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications

Table 124. SmartMore(Inside) Short Wavelength Infra-Red (SWIR) Lenses Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2020-2025)

Table 125. SmartMore(Inside) Main Business

Table 126. SmartMore(Inside) Latest Developments

Table 127. Kowa Company Basic Information, Short Wavelength Infra-Red (SWIR) Lenses Manufacturing Base, Sales Area and Its Competitors

Table 128. Kowa Company Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications

Table 129. Kowa Company Short Wavelength Infra-Red (SWIR) Lenses Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2020-2025)

Table 130. Kowa Company Main Business

Table 131. Kowa Company Latest Developments

Table 132. Shibuya Optical Basic Information, Short Wavelength Infra-Red (SWIR)

Lenses Manufacturing Base, Sales Area and Its Competitors

Table 133. Shibuya Optical Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications

Table 134. Shibuya Optical Short Wavelength Infra-Red (SWIR) Lenses Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2020-2025)

Table 135. Shibuya Optical Main Business

Table 136. Shibuya Optical Latest Developments

Table 137. Seiwa Optical Basic Information, Short Wavelength Infra-Red (SWIR) Lenses Manufacturing Base, Sales Area and Its Competitors

Table 138. Seiwa Optical Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications

Table 139. Seiwa Optical Short Wavelength Infra-Red (SWIR) Lenses Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2020-2025)

Table 140. Seiwa Optical Main Business

Table 141. Seiwa Optical Latest Developments

Table 142. Beck Optronic Solutions Basic Information, Short Wavelength Infra-Red (SWIR) Lenses Manufacturing Base, Sales Area and Its Competitors

Table 143. Beck Optronic Solutions Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications

Table 144. Beck Optronic Solutions Short Wavelength Infra-Red (SWIR) Lenses Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2020-2025)

Table 145. Beck Optronic Solutions Main Business

Table 146. Beck Optronic Solutions Latest Developments

Table 147. Resolve Optics Basic Information, Short Wavelength Infra-Red (SWIR) Lenses Manufacturing Base, Sales Area and Its Competitors

Table 148. Resolve Optics Short Wavelength Infra-Red (SWIR) Lenses Product Portfolios and Specifications

Table 149. Resolve Optics Short Wavelength Infra-Red (SWIR) Lenses Sales (Units), Revenue (\$ Million), Price (K USD/Unit) and Gross Margin (2020-2025)

Table 150. Resolve Optics Main Business

Table 151. Resolve Optics Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Short Wavelength Infra-Red (SWIR) Lenses
- Figure 2. Short Wavelength Infra-Red (SWIR) Lenses Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Short Wavelength Infra-Red (SWIR) Lenses Sales Growth Rate 2020-2031 (Units)
- Figure 7. Global Short Wavelength Infra-Red (SWIR) Lenses Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. Short Wavelength Infra-Red (SWIR) Lenses Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. Short Wavelength Infra-Red (SWIR) Lenses Sales Market Share by Country/Region (2024)
- Figure 10. Short Wavelength Infra-Red (SWIR) Lenses Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of Prime Lens
- Figure 12. Product Picture of Zoom Lens
- Figure 13. Global Short Wavelength Infra-Red (SWIR) Lenses Sales Market Share by Type in 2025
- Figure 14. Global Short Wavelength Infra-Red (SWIR) Lenses Revenue Market Share by Type (2020-2025)
- Figure 15. Short Wavelength Infra-Red (SWIR) Lenses Consumed in Industrial
- Figure 16. Global Short Wavelength Infra-Red (SWIR) Lenses Market: Industrial (2020-2025) & (Units)
- Figure 17. Short Wavelength Infra-Red (SWIR) Lenses Consumed in Military and Defense
- Figure 18. Global Short Wavelength Infra-Red (SWIR) Lenses Market: Military and Defense (2020-2025) & (Units)
- Figure 19. Short Wavelength Infra-Red (SWIR) Lenses Consumed in Scientific Research
- Figure 20. Global Short Wavelength Infra-Red (SWIR) Lenses Market: Scientific Research (2020-2025) & (Units)
- Figure 21. Short Wavelength Infra-Red (SWIR) Lenses Consumed in Others
- Figure 22. Global Short Wavelength Infra-Red (SWIR) Lenses Market: Others (2020-2025) & (Units)

Figure 23. Global Short Wavelength Infra-Red (SWIR) Lenses Sale Market Share by Application (2024)

Figure 24. Global Short Wavelength Infra-Red (SWIR) Lenses Revenue Market Share by Application in 2025

Figure 25. Short Wavelength Infra-Red (SWIR) Lenses Sales by Company in 2025 (Units)

Figure 26. Global Short Wavelength Infra-Red (SWIR) Lenses Sales Market Share by Company in 2025

Figure 27. Short Wavelength Infra-Red (SWIR) Lenses Revenue by Company in 2025 (\$ millions)

Figure 28. Global Short Wavelength Infra-Red (SWIR) Lenses Revenue Market Share by Company in 2025

Figure 29. Global Short Wavelength Infra-Red (SWIR) Lenses Sales Market Share by Geographic Region (2020-2025)

Figure 30. Global Short Wavelength Infra-Red (SWIR) Lenses Revenue Market Share by Geographic Region in 2025

Figure 31. Americas Short Wavelength Infra-Red (SWIR) Lenses Sales 2020-2025 (Units)

Figure 32. Americas Short Wavelength Infra-Red (SWIR) Lenses Revenue 2020-2025 (\$ millions)

Figure 33. APAC Short Wavelength Infra-Red (SWIR) Lenses Sales 2020-2025 (Units)

Figure 34. APAC Short Wavelength Infra-Red (SWIR) Lenses Revenue 2020-2025 (\$ millions)

Figure 35. Europe Short Wavelength Infra-Red (SWIR) Lenses Sales 2020-2025 (Units)

Figure 36. Europe Short Wavelength Infra-Red (SWIR) Lenses Revenue 2020-2025 (\$ millions)

Figure 37. Middle East & Africa Short Wavelength Infra-Red (SWIR) Lenses Sales 2020-2025 (Units)

Figure 38. Middle East & Africa Short Wavelength Infra-Red (SWIR) Lenses Revenue 2020-2025 (\$ millions)

Figure 39. Americas Short Wavelength Infra-Red (SWIR) Lenses Sales Market Share by Country in 2025

Figure 40. Americas Short Wavelength Infra-Red (SWIR) Lenses Revenue Market Share by Country (2020-2025)

Figure 41. Americas Short Wavelength Infra-Red (SWIR) Lenses Sales Market Share by Type (2020-2025)

Figure 42. Americas Short Wavelength Infra-Red (SWIR) Lenses Sales Market Share by Application (2020-2025)

Figure 43. United States Short Wavelength Infra-Red (SWIR) Lenses Revenue Growth

2020-2025 (\$ millions)

Figure 44. Canada Short Wavelength Infra-Red (SWIR) Lenses Revenue Growth

2020-2025 (\$ millions)

Figure 45. Mexico Short Wavelength Infra-Red (SWIR) Lenses Revenue Growth

2020-2025 (\$ millions)

Figure 46. Brazil Short Wavelength Infra-Red (SWIR) Lenses Revenue Growth

2020-2025 (\$ millions)

Figure 47. APAC Short Wavelength Infra-Red (SWIR) Lenses Sales Market Share by Region in 2025

Figure 48. APAC Short Wavelength Infra-Red (SWIR) Lenses Revenue Market Share by Region (2020-2025)

Figure 49. APAC Short Wavelength Infra-Red (SWIR) Lenses Sales Market Share by Type (2020-2025)

Figure 50. APAC Short Wavelength Infra-Red (SWIR) Lenses Sales Market Share by Application (2020-2025)

Figure 51. China Short Wavelength Infra-Red (SWIR) Lenses Revenue Growth 2020-2025 (\$ millions)

Figure 52. Japan Short Wavelength Infra-Red (SWIR) Lenses Revenue Growth 2020-2025 (\$ millions)

Figure 53. South Korea Short Wavelength Infra-Red (SWIR) Lenses Revenue Growth 2020-2025 (\$ millions)

Figure 54. Southeast Asia Short Wavelength Infra-Red (SWIR) Lenses Revenue Growth 2020-2025 (\$ millions)

Figure 55. India Short Wavelength Infra-Red (SWIR) Lenses Revenue Growth 2020-2025 (\$ millions)

Figure 56. Australia Short Wavelength Infra-Red (SWIR) Lenses Revenue Growth 2020-2025 (\$ millions)

Figure 57. China Taiwan Short Wavelength Infra-Red (SWIR) Lenses Revenue Growth 2020-2025 (\$ millions)

Figure 58. Europe Short Wavelength Infra-Red (SWIR) Lenses Sales Market Share by Country in 2025

Figure 59. Europe Short Wavelength Infra-Red (SWIR) Lenses Revenue Market Share by Country (2020-2025)

Figure 60. Europe Short Wavelength Infra-Red (SWIR) Lenses Sales Market Share by Type (2020-2025)

Figure 61. Europe Short Wavelength Infra-Red (SWIR) Lenses Sales Market Share by Application (2020-2025)

Figure 62. Germany Short Wavelength Infra-Red (SWIR) Lenses Revenue Growth 2020-2025 (\$ millions)

Figure 63. France Short Wavelength Infra-Red (SWIR) Lenses Revenue Growth 2020-2025 (\$ millions)

Figure 64. UK Short Wavelength Infra-Red (SWIR) Lenses Revenue Growth 2020-2025 (\$ millions)

Figure 65. Italy Short Wavelength Infra-Red (SWIR) Lenses Revenue Growth 2020-2025 (\$ millions)

Figure 66. Russia Short Wavelength Infra-Red (SWIR) Lenses Revenue Growth 2020-2025 (\$ millions)

Figure 67. Middle East & Africa Short Wavelength Infra-Red (SWIR) Lenses Sales Market Share by Country (2020-2025)

Figure 68. Middle East & Africa Short Wavelength Infra-Red (SWIR) Lenses Sales Market Share by Type (2020-2025)

Figure 69. Middle East & Africa Short Wavelength Infra-Red (SWIR) Lenses Sales Market Share by Application (2020-2025)

Figure 70. Egypt Short Wavelength Infra-Red (SWIR) Lenses Revenue Growth 2020-2025 (\$ millions)

Figure 71. South Africa Short Wavelength Infra-Red (SWIR) Lenses Revenue Growth 2020-2025 (\$ millions)

Figure 72. Israel Short Wavelength Infra-Red (SWIR) Lenses Revenue Growth 2020-2025 (\$ millions)

Figure 73. Turkey Short Wavelength Infra-Red (SWIR) Lenses Revenue Growth 2020-2025 (\$ millions)

Figure 74. GCC Countries Short Wavelength Infra-Red (SWIR) Lenses Revenue Growth 2020-2025 (\$ millions)

Figure 75. Manufacturing Cost Structure Analysis of Short Wavelength Infra-Red (SWIR) Lenses in 2025

Figure 76. Manufacturing Process Analysis of Short Wavelength Infra-Red (SWIR) Lenses

Figure 77. Industry Chain Structure of Short Wavelength Infra-Red (SWIR) Lenses

Figure 78. Channels of Distribution

Figure 79. Global Short Wavelength Infra-Red (SWIR) Lenses Sales Market Forecast by Region (2026-2031)

Figure 80. Global Short Wavelength Infra-Red (SWIR) Lenses Revenue Market Share Forecast by Region (2026-2031)

Figure 81. Global Short Wavelength Infra-Red (SWIR) Lenses Sales Market Share Forecast by Type (2026-2031)

Figure 82. Global Short Wavelength Infra-Red (SWIR) Lenses Revenue Market Share Forecast by Type (2026-2031)

Figure 83. Global Short Wavelength Infra-Red (SWIR) Lenses Sales Market Share

Forecast by Application (2026-2031)

Figure 84. Global Short Wavelength Infra-Red (SWIR) Lenses Revenue Market Share

Forecast by Application (2026-2031)

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