

Global Short Wave Infrared (SWIR) Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Short Wave Infrared (SWIR) market size was valued at US\$ 238 million in 2024 and is forecast to a readjusted size of USD 440 million by 2031 with a CAGR of 9.3% during review period.

Sensing in the shortwave infrared (SWIR) range (wavelengths from 0.9 to 1.7 microns) has only recently been made practical by the development of Indium Gallium Arsenide (InGaAs) sensors.

Short-wave infrared (SWIR) light is typically defined as light in the 0.9 – 1.7µm wavelength range, but can also be classified from 0.7 – 2.5µm. Since silicon sensors have an upper limit of approximately 1.0µm, SWIR imaging requires unique optical and electronic components capable of performing in the specific SWIR range. Sensing in the shortwave infrared (SWIR) range (wavelengths from 0.9 to 1.7 microns) has only recently been made practical by the development of Indium Gallium Arsenide (InGaAs) sensors.

Unlike Mid-Wave Infrared (MWIR) and Long-Wave Infrared (LWIR) light, which is emitted from the object itself, SWIR is similar to visible light in that photons are reflected or absorbed by an object, providing the strong contrast needed for high resolution imaging. Ambient star light and background radiance (nightglow) are natural emitters of SWIR and provide excellent illumination for outdoor, nighttime imaging.

It is essential to use a lens that is designed, optimized, and coated for the SWIR wavelength range. Using a lens designed for the visible spectrum will result in lower resolution images and higher optical aberrations. Since SWIR wavelengths transmit

through glass, lenses, and other optical components (optical filters, windows, etc.) designed for SWIR can be manufactured using the same techniques used for visible components, decreasing manufacturing cost and enabling the use of protective windows and filters within a system.

A large number of applications that are difficult or impossible to perform using visible light are possible using SWIR. When imaging in SWIR, water vapor, fog, and certain materials such as silicon are transparent. Additionally, colors that appear almost identical in the visible may be easily differentiated using SWIR.

SWIR imaging is used in a variety of applications including electronic board inspection, solar cell inspection, produce inspection, identifying and sorting, surveillance, anti-counterfeiting, process quality control, and much more. To understand the benefits of SWIR imaging, consider some visual examples of common, everyday products imaged with visible light and with SWIR.

In the global Short Wave Infrared (SWIR) market, the key players are like Teledyne Technologies, Hamamatsu Photonics, Xenics, First Light, Fluxdata, etc. Top five players hold a share about 54%. In terms of consumption of Short Wave Infrared (SWIR), North America is the largest consumption market, with a share about 35%. In terms of product, SWIR Area Scan Camera is the largest segment, with a share about 75%. And in terms of application, the largest application is Industrial Application and Military and Defense, both with a share about 25%.

This report is a detailed and comprehensive analysis for global Short Wave Infrared (SWIR) market. Both quantitative and qualitative analyses are presented by manufacturers, 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 2025, are provided.

Key Features:

Global Short Wave Infrared (SWIR) market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Short Wave Infrared (SWIR) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices

(USK\$/Unit), 2020-2031

Global Short Wave Infrared (SWIR) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (USK\$/Unit), 2020-2031

Global Short Wave Infrared (SWIR) market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (USK\$/Unit), 2020-2025

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 Short Wave Infrared (SWIR)

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 Short Wave Infrared (SWIR) market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include FLIR Systems, Hamamatsu Photonics, Sensors Unlimited, Teledyne Technologies, Xenics, Allied Vision Technologies, Raptor Photonics, IRCameras, New Imaging Technologies, First Light, etc.

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

Market Segmentation

Short Wave Infrared (SWIR) market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

SWIR Area Scan Camera

SWIR Line Scan Camera

Market segment by Application

Industrial Application

Military and Defense

Scientific Research

Others

Major players covered

FLIR Systems

Hamamatsu Photonics

Sensors Unlimited

Teledyne Technologies

Xenics

Allied Vision Technologies

Raptor Photonics

IRCameras

New Imaging Technologies

First Light

GuoHui OPTO-electronic

Infiniti Electro-Optics

SWIR Vision Systems

Photonic Science

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

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

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

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Short Wave Infrared (SWIR) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Short Wave Infrared (SWIR), with price, sales quantity, revenue, and global market share of Short Wave Infrared (SWIR) from 2020 to 2025.

Chapter 3, the Short Wave Infrared (SWIR) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Short Wave Infrared (SWIR) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market

share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Short Wave Infrared (SWIR) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Short Wave Infrared (SWIR).

Chapter 14 and 15, to describe Short Wave Infrared (SWIR) sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

- 1.1 Product Overview and Scope
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
 - 1.3.1 Overview: Global Short Wave Infrared (SWIR) Consumption Value by Type: 2020 Versus 2024 Versus 2031
 - 1.3.2 SWIR Area Scan Camera
 - 1.3.3 SWIR Line Scan Camera
- 1.4 Market Analysis by Application
 - 1.4.1 Overview: Global Short Wave Infrared (SWIR) Consumption Value by Application: 2020 Versus 2024 Versus 2031
 - 1.4.2 Industrial Application
 - 1.4.3 Military and Defense
 - 1.4.4 Scientific Research
 - 1.4.5 Others
- 1.5 Global Short Wave Infrared (SWIR) Market Size & Forecast
 - 1.5.1 Global Short Wave Infrared (SWIR) Consumption Value (2020 & 2024 & 2031)
 - 1.5.2 Global Short Wave Infrared (SWIR) Sales Quantity (2020-2031)
 - 1.5.3 Global Short Wave Infrared (SWIR) Average Price (2020-2031)

2 MANUFACTURERS PROFILES

- 2.1 FLIR Systems
 - 2.1.1 FLIR Systems Details
 - 2.1.2 FLIR Systems Major Business
 - 2.1.3 FLIR Systems Short Wave Infrared (SWIR) Product and Services
 - 2.1.4 FLIR Systems Short Wave Infrared (SWIR) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.1.5 FLIR Systems Recent Developments/Updates
- 2.2 Hamamatsu Photonics
 - 2.2.1 Hamamatsu Photonics Details
 - 2.2.2 Hamamatsu Photonics Major Business
 - 2.2.3 Hamamatsu Photonics Short Wave Infrared (SWIR) Product and Services
 - 2.2.4 Hamamatsu Photonics Short Wave Infrared (SWIR) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.2.5 Hamamatsu Photonics Recent Developments/Updates

2.3 Sensors Unlimited

2.3.1 Sensors Unlimited Details

2.3.2 Sensors Unlimited Major Business

2.3.3 Sensors Unlimited Short Wave Infrared (SWIR) Product and Services

2.3.4 Sensors Unlimited Short Wave Infrared (SWIR) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.3.5 Sensors Unlimited Recent Developments/Updates

2.4 Teledyne Technologies

2.4.1 Teledyne Technologies Details

2.4.2 Teledyne Technologies Major Business

2.4.3 Teledyne Technologies Short Wave Infrared (SWIR) Product and Services

2.4.4 Teledyne Technologies Short Wave Infrared (SWIR) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.4.5 Teledyne Technologies Recent Developments/Updates

2.5 Xenics

2.5.1 Xenics Details

2.5.2 Xenics Major Business

2.5.3 Xenics Short Wave Infrared (SWIR) Product and Services

2.5.4 Xenics Short Wave Infrared (SWIR) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.5.5 Xenics Recent Developments/Updates

2.6 Allied Vision Technologies

2.6.1 Allied Vision Technologies Details

2.6.2 Allied Vision Technologies Major Business

2.6.3 Allied Vision Technologies Short Wave Infrared (SWIR) Product and Services

2.6.4 Allied Vision Technologies Short Wave Infrared (SWIR) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.6.5 Allied Vision Technologies Recent Developments/Updates

2.7 Raptor Photonics

2.7.1 Raptor Photonics Details

2.7.2 Raptor Photonics Major Business

2.7.3 Raptor Photonics Short Wave Infrared (SWIR) Product and Services

2.7.4 Raptor Photonics Short Wave Infrared (SWIR) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.7.5 Raptor Photonics Recent Developments/Updates

2.8 IRCameras

2.8.1 IRCameras Details

2.8.2 IRCameras Major Business

2.8.3 IRCameras Short Wave Infrared (SWIR) Product and Services

- 2.8.4 IRCameras Short Wave Infrared (SWIR) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.8.5 IRCameras Recent Developments/Updates
- 2.9 New Imaging Technologies
 - 2.9.1 New Imaging Technologies Details
 - 2.9.2 New Imaging Technologies Major Business
 - 2.9.3 New Imaging Technologies Short Wave Infrared (SWIR) Product and Services
 - 2.9.4 New Imaging Technologies Short Wave Infrared (SWIR) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.9.5 New Imaging Technologies Recent Developments/Updates
- 2.10 First Light
 - 2.10.1 First Light Details
 - 2.10.2 First Light Major Business
 - 2.10.3 First Light Short Wave Infrared (SWIR) Product and Services
 - 2.10.4 First Light Short Wave Infrared (SWIR) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.10.5 First Light Recent Developments/Updates
- 2.11 GuoHui OPTO-electronic
 - 2.11.1 GuoHui OPTO-electronic Details
 - 2.11.2 GuoHui OPTO-electronic Major Business
 - 2.11.3 GuoHui OPTO-electronic Short Wave Infrared (SWIR) Product and Services
 - 2.11.4 GuoHui OPTO-electronic Short Wave Infrared (SWIR) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.11.5 GuoHui OPTO-electronic Recent Developments/Updates
- 2.12 Infiniti Electro-Optics
 - 2.12.1 Infiniti Electro-Optics Details
 - 2.12.2 Infiniti Electro-Optics Major Business
 - 2.12.3 Infiniti Electro-Optics Short Wave Infrared (SWIR) Product and Services
 - 2.12.4 Infiniti Electro-Optics Short Wave Infrared (SWIR) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.12.5 Infiniti Electro-Optics Recent Developments/Updates
- 2.13 SWIR Vision Systems
 - 2.13.1 SWIR Vision Systems Details
 - 2.13.2 SWIR Vision Systems Major Business
 - 2.13.3 SWIR Vision Systems Short Wave Infrared (SWIR) Product and Services
 - 2.13.4 SWIR Vision Systems Short Wave Infrared (SWIR) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.13.5 SWIR Vision Systems Recent Developments/Updates
- 2.14 Photonic Science

- 2.14.1 Photonic Science Details
- 2.14.2 Photonic Science Major Business
- 2.14.3 Photonic Science Short Wave Infrared (SWIR) Product and Services
- 2.14.4 Photonic Science Short Wave Infrared (SWIR) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.14.5 Photonic Science Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: SHORT WAVE INFRARED (SWIR) BY MANUFACTURER

- 3.1 Global Short Wave Infrared (SWIR) Sales Quantity by Manufacturer (2020-2025)
- 3.2 Global Short Wave Infrared (SWIR) Revenue by Manufacturer (2020-2025)
- 3.3 Global Short Wave Infrared (SWIR) Average Price by Manufacturer (2020-2025)
- 3.4 Market Share Analysis (2024)
 - 3.4.1 Producer Shipments of Short Wave Infrared (SWIR) by Manufacturer Revenue (\$MM) and Market Share (%): 2024
 - 3.4.2 Top 3 Short Wave Infrared (SWIR) Manufacturer Market Share in 2024
 - 3.4.3 Top 6 Short Wave Infrared (SWIR) Manufacturer Market Share in 2024
- 3.5 Short Wave Infrared (SWIR) Market: Overall Company Footprint Analysis
 - 3.5.1 Short Wave Infrared (SWIR) Market: Region Footprint
 - 3.5.2 Short Wave Infrared (SWIR) Market: Company Product Type Footprint
 - 3.5.3 Short Wave Infrared (SWIR) Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Short Wave Infrared (SWIR) Market Size by Region
 - 4.1.1 Global Short Wave Infrared (SWIR) Sales Quantity by Region (2020-2031)
 - 4.1.2 Global Short Wave Infrared (SWIR) Consumption Value by Region (2020-2031)
 - 4.1.3 Global Short Wave Infrared (SWIR) Average Price by Region (2020-2031)
- 4.2 North America Short Wave Infrared (SWIR) Consumption Value (2020-2031)
- 4.3 Europe Short Wave Infrared (SWIR) Consumption Value (2020-2031)
- 4.4 Asia-Pacific Short Wave Infrared (SWIR) Consumption Value (2020-2031)
- 4.5 South America Short Wave Infrared (SWIR) Consumption Value (2020-2031)
- 4.6 Middle East & Africa Short Wave Infrared (SWIR) Consumption Value (2020-2031)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Short Wave Infrared (SWIR) Sales Quantity by Type (2020-2031)
- 5.2 Global Short Wave Infrared (SWIR) Consumption Value by Type (2020-2031)
- 5.3 Global Short Wave Infrared (SWIR) Average Price by Type (2020-2031)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Short Wave Infrared (SWIR) Sales Quantity by Application (2020-2031)
- 6.2 Global Short Wave Infrared (SWIR) Consumption Value by Application (2020-2031)
- 6.3 Global Short Wave Infrared (SWIR) Average Price by Application (2020-2031)

7 NORTH AMERICA

- 7.1 North America Short Wave Infrared (SWIR) Sales Quantity by Type (2020-2031)
- 7.2 North America Short Wave Infrared (SWIR) Sales Quantity by Application (2020-2031)
- 7.3 North America Short Wave Infrared (SWIR) Market Size by Country
 - 7.3.1 North America Short Wave Infrared (SWIR) Sales Quantity by Country (2020-2031)
 - 7.3.2 North America Short Wave Infrared (SWIR) Consumption Value by Country (2020-2031)
 - 7.3.3 United States Market Size and Forecast (2020-2031)
 - 7.3.4 Canada Market Size and Forecast (2020-2031)
 - 7.3.5 Mexico Market Size and Forecast (2020-2031)

8 EUROPE

- 8.1 Europe Short Wave Infrared (SWIR) Sales Quantity by Type (2020-2031)
- 8.2 Europe Short Wave Infrared (SWIR) Sales Quantity by Application (2020-2031)
- 8.3 Europe Short Wave Infrared (SWIR) Market Size by Country
 - 8.3.1 Europe Short Wave Infrared (SWIR) Sales Quantity by Country (2020-2031)
 - 8.3.2 Europe Short Wave Infrared (SWIR) Consumption Value by Country (2020-2031)
 - 8.3.3 Germany Market Size and Forecast (2020-2031)
 - 8.3.4 France Market Size and Forecast (2020-2031)
 - 8.3.5 United Kingdom Market Size and Forecast (2020-2031)
 - 8.3.6 Russia Market Size and Forecast (2020-2031)
 - 8.3.7 Italy Market Size and Forecast (2020-2031)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Short Wave Infrared (SWIR) Sales Quantity by Type (2020-2031)
- 9.2 Asia-Pacific Short Wave Infrared (SWIR) Sales Quantity by Application (2020-2031)
- 9.3 Asia-Pacific Short Wave Infrared (SWIR) Market Size by Region
 - 9.3.1 Asia-Pacific Short Wave Infrared (SWIR) Sales Quantity by Region (2020-2031)
 - 9.3.2 Asia-Pacific Short Wave Infrared (SWIR) Consumption Value by Region (2020-2031)
 - 9.3.3 China Market Size and Forecast (2020-2031)
 - 9.3.4 Japan Market Size and Forecast (2020-2031)
 - 9.3.5 South Korea Market Size and Forecast (2020-2031)
 - 9.3.6 India Market Size and Forecast (2020-2031)
 - 9.3.7 Southeast Asia Market Size and Forecast (2020-2031)
 - 9.3.8 Australia Market Size and Forecast (2020-2031)

10 SOUTH AMERICA

- 10.1 South America Short Wave Infrared (SWIR) Sales Quantity by Type (2020-2031)
- 10.2 South America Short Wave Infrared (SWIR) Sales Quantity by Application (2020-2031)
- 10.3 South America Short Wave Infrared (SWIR) Market Size by Country
 - 10.3.1 South America Short Wave Infrared (SWIR) Sales Quantity by Country (2020-2031)
 - 10.3.2 South America Short Wave Infrared (SWIR) Consumption Value by Country (2020-2031)
 - 10.3.3 Brazil Market Size and Forecast (2020-2031)
 - 10.3.4 Argentina Market Size and Forecast (2020-2031)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Short Wave Infrared (SWIR) Sales Quantity by Type (2020-2031)
- 11.2 Middle East & Africa Short Wave Infrared (SWIR) Sales Quantity by Application (2020-2031)
- 11.3 Middle East & Africa Short Wave Infrared (SWIR) Market Size by Country
 - 11.3.1 Middle East & Africa Short Wave Infrared (SWIR) Sales Quantity by Country (2020-2031)
 - 11.3.2 Middle East & Africa Short Wave Infrared (SWIR) Consumption Value by Country (2020-2031)
 - 11.3.3 Turkey Market Size and Forecast (2020-2031)
 - 11.3.4 Egypt Market Size and Forecast (2020-2031)

11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)

11.3.6 South Africa Market Size and Forecast (2020-2031)

12 MARKET DYNAMICS

12.1 Short Wave Infrared (SWIR) Market Drivers

12.2 Short Wave Infrared (SWIR) Market Restraints

12.3 Short Wave Infrared (SWIR) Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Short Wave Infrared (SWIR) and Key Manufacturers

13.2 Manufacturing Costs Percentage of Short Wave Infrared (SWIR)

13.3 Short Wave Infrared (SWIR) Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Short Wave Infrared (SWIR) Typical Distributors

14.3 Short Wave Infrared (SWIR) Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Short Wave Infrared (SWIR) Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global Short Wave Infrared (SWIR) Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. FLIR Systems Basic Information, Manufacturing Base and Competitors

Table 4. FLIR Systems Major Business

Table 5. FLIR Systems Short Wave Infrared (SWIR) Product and Services

Table 6. FLIR Systems Short Wave Infrared (SWIR) Sales Quantity (Units), Average Price (USK\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. FLIR Systems Recent Developments/Updates

Table 8. Hamamatsu Photonics Basic Information, Manufacturing Base and Competitors

Table 9. Hamamatsu Photonics Major Business

Table 10. Hamamatsu Photonics Short Wave Infrared (SWIR) Product and Services

Table 11. Hamamatsu Photonics Short Wave Infrared (SWIR) Sales Quantity (Units), Average Price (USK\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. Hamamatsu Photonics Recent Developments/Updates

Table 13. Sensors Unlimited Basic Information, Manufacturing Base and Competitors

Table 14. Sensors Unlimited Major Business

Table 15. Sensors Unlimited Short Wave Infrared (SWIR) Product and Services

Table 16. Sensors Unlimited Short Wave Infrared (SWIR) Sales Quantity (Units), Average Price (USK\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. Sensors Unlimited Recent Developments/Updates

Table 18. Teledyne Technologies Basic Information, Manufacturing Base and Competitors

Table 19. Teledyne Technologies Major Business

Table 20. Teledyne Technologies Short Wave Infrared (SWIR) Product and Services

Table 21. Teledyne Technologies Short Wave Infrared (SWIR) Sales Quantity (Units), Average Price (USK\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. Teledyne Technologies Recent Developments/Updates

Table 23. Xenics Basic Information, Manufacturing Base and Competitors

Table 24. Xenics Major Business

Table 25. Xenics Short Wave Infrared (SWIR) Product and Services

Table 26. Xenics Short Wave Infrared (SWIR) Sales Quantity (Units), Average Price (USK\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 27. Xenics Recent Developments/Updates

Table 28. Allied Vision Technologies Basic Information, Manufacturing Base and Competitors

Table 29. Allied Vision Technologies Major Business

Table 30. Allied Vision Technologies Short Wave Infrared (SWIR) Product and Services

Table 31. Allied Vision Technologies Short Wave Infrared (SWIR) Sales Quantity (Units), Average Price (USK\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 32. Allied Vision Technologies Recent Developments/Updates

Table 33. Raptor Photonics Basic Information, Manufacturing Base and Competitors

Table 34. Raptor Photonics Major Business

Table 35. Raptor Photonics Short Wave Infrared (SWIR) Product and Services

Table 36. Raptor Photonics Short Wave Infrared (SWIR) Sales Quantity (Units), Average Price (USK\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 37. Raptor Photonics Recent Developments/Updates

Table 38. IRCameras Basic Information, Manufacturing Base and Competitors

Table 39. IRCameras Major Business

Table 40. IRCameras Short Wave Infrared (SWIR) Product and Services

Table 41. IRCameras Short Wave Infrared (SWIR) Sales Quantity (Units), Average Price (USK\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 42. IRCameras Recent Developments/Updates

Table 43. New Imaging Technologies Basic Information, Manufacturing Base and Competitors

Table 44. New Imaging Technologies Major Business

Table 45. New Imaging Technologies Short Wave Infrared (SWIR) Product and Services

Table 46. New Imaging Technologies Short Wave Infrared (SWIR) Sales Quantity (Units), Average Price (USK\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 47. New Imaging Technologies Recent Developments/Updates

Table 48. First Light Basic Information, Manufacturing Base and Competitors

Table 49. First Light Major Business

Table 50. First Light Short Wave Infrared (SWIR) Product and Services

Table 51. First Light Short Wave Infrared (SWIR) Sales Quantity (Units), Average Price (USK\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 52. First Light Recent Developments/Updates

Table 53. GuoHui OPTO-electronic Basic Information, Manufacturing Base and Competitors

Table 54. GuoHui OPTO-electronic Major Business

Table 55. GuoHui OPTO-electronic Short Wave Infrared (SWIR) Product and Services

Table 56. GuoHui OPTO-electronic Short Wave Infrared (SWIR) Sales Quantity (Units), Average Price (USK\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 57. GuoHui OPTO-electronic Recent Developments/Updates

Table 58. Infiniti Electro-Optics Basic Information, Manufacturing Base and Competitors

Table 59. Infiniti Electro-Optics Major Business

Table 60. Infiniti Electro-Optics Short Wave Infrared (SWIR) Product and Services

Table 61. Infiniti Electro-Optics Short Wave Infrared (SWIR) Sales Quantity (Units), Average Price (USK\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 62. Infiniti Electro-Optics Recent Developments/Updates

Table 63. SWIR Vision Systems Basic Information, Manufacturing Base and Competitors

Table 64. SWIR Vision Systems Major Business

Table 65. SWIR Vision Systems Short Wave Infrared (SWIR) Product and Services

Table 66. SWIR Vision Systems Short Wave Infrared (SWIR) Sales Quantity (Units), Average Price (USK\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 67. SWIR Vision Systems Recent Developments/Updates

Table 68. Photonic Science Basic Information, Manufacturing Base and Competitors

Table 69. Photonic Science Major Business

Table 70. Photonic Science Short Wave Infrared (SWIR) Product and Services

Table 71. Photonic Science Short Wave Infrared (SWIR) Sales Quantity (Units), Average Price (USK\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 72. Photonic Science Recent Developments/Updates

Table 73. Global Short Wave Infrared (SWIR) Sales Quantity by Manufacturer (2020-2025) & (Units)

Table 74. Global Short Wave Infrared (SWIR) Revenue by Manufacturer (2020-2025) & (USD Million)

Table 75. Global Short Wave Infrared (SWIR) Average Price by Manufacturer (2020-2025) & (USK\$/Unit)

Table 76. Market Position of Manufacturers in Short Wave Infrared (SWIR), (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024

Table 77. Head Office and Short Wave Infrared (SWIR) Production Site of Key Manufacturer

Table 78. Short Wave Infrared (SWIR) Market: Company Product Type Footprint

Table 79. Short Wave Infrared (SWIR) Market: Company Product Application Footprint

Table 80. Short Wave Infrared (SWIR) New Market Entrants and Barriers to Market Entry

Table 81. Short Wave Infrared (SWIR) Mergers, Acquisition, Agreements, and Collaborations

Table 82. Global Short Wave Infrared (SWIR) Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 83. Global Short Wave Infrared (SWIR) Sales Quantity by Region (2020-2025) & (Units)

Table 84. Global Short Wave Infrared (SWIR) Sales Quantity by Region (2026-2031) & (Units)

Table 85. Global Short Wave Infrared (SWIR) Consumption Value by Region (2020-2025) & (USD Million)

Table 86. Global Short Wave Infrared (SWIR) Consumption Value by Region (2026-2031) & (USD Million)

Table 87. Global Short Wave Infrared (SWIR) Average Price by Region (2020-2025) & (USK\$/Unit)

Table 88. Global Short Wave Infrared (SWIR) Average Price by Region (2026-2031) & (USK\$/Unit)

Table 89. Global Short Wave Infrared (SWIR) Sales Quantity by Type (2020-2025) & (Units)

Table 90. Global Short Wave Infrared (SWIR) Sales Quantity by Type (2026-2031) & (Units)

Table 91. Global Short Wave Infrared (SWIR) Consumption Value by Type (2020-2025) & (USD Million)

Table 92. Global Short Wave Infrared (SWIR) Consumption Value by Type (2026-2031) & (USD Million)

Table 93. Global Short Wave Infrared (SWIR) Average Price by Type (2020-2025) & (USK\$/Unit)

Table 94. Global Short Wave Infrared (SWIR) Average Price by Type (2026-2031) & (USK\$/Unit)

Table 95. Global Short Wave Infrared (SWIR) Sales Quantity by Application (2020-2025) & (Units)

Table 96. Global Short Wave Infrared (SWIR) Sales Quantity by Application

(2026-2031) & (Units)

Table 97. Global Short Wave Infrared (SWIR) Consumption Value by Application
(2020-2025) & (USD Million)

Table 98. Global Short Wave Infrared (SWIR) Consumption Value by Application
(2026-2031) & (USD Million)

Table 99. Global Short Wave Infrared (SWIR) Average Price by Application (2020-2025)
& (USK\$/Unit)

Table 100. Global Short Wave Infrared (SWIR) Average Price by Application
(2026-2031) & (USK\$/Unit)

Table 101. North America Short Wave Infrared (SWIR) Sales Quantity by Type
(2020-2025) & (Units)

Table 102. North America Short Wave Infrared (SWIR) Sales Quantity by Type
(2026-2031) & (Units)

Table 103. North America Short Wave Infrared (SWIR) Sales Quantity by Application
(2020-2025) & (Units)

Table 104. North America Short Wave Infrared (SWIR) Sales Quantity by Application
(2026-2031) & (Units)

Table 105. North America Short Wave Infrared (SWIR) Sales Quantity by Country
(2020-2025) & (Units)

Table 106. North America Short Wave Infrared (SWIR) Sales Quantity by Country
(2026-2031) & (Units)

Table 107. North America Short Wave Infrared (SWIR) Consumption Value by Country
(2020-2025) & (USD Million)

Table 108. North America Short Wave Infrared (SWIR) Consumption Value by Country
(2026-2031) & (USD Million)

Table 109. Europe Short Wave Infrared (SWIR) Sales Quantity by Type (2020-2025) &
(Units)

Table 110. Europe Short Wave Infrared (SWIR) Sales Quantity by Type (2026-2031) &
(Units)

Table 111. Europe Short Wave Infrared (SWIR) Sales Quantity by Application
(2020-2025) & (Units)

Table 112. Europe Short Wave Infrared (SWIR) Sales Quantity by Application
(2026-2031) & (Units)

Table 113. Europe Short Wave Infrared (SWIR) Sales Quantity by Country (2020-2025)
& (Units)

Table 114. Europe Short Wave Infrared (SWIR) Sales Quantity by Country (2026-2031)
& (Units)

Table 115. Europe Short Wave Infrared (SWIR) Consumption Value by Country
(2020-2025) & (USD Million)

Table 116. Europe Short Wave Infrared (SWIR) Consumption Value by Country (2026-2031) & (USD Million)

Table 117. Asia-Pacific Short Wave Infrared (SWIR) Sales Quantity by Type (2020-2025) & (Units)

Table 118. Asia-Pacific Short Wave Infrared (SWIR) Sales Quantity by Type (2026-2031) & (Units)

Table 119. Asia-Pacific Short Wave Infrared (SWIR) Sales Quantity by Application (2020-2025) & (Units)

Table 120. Asia-Pacific Short Wave Infrared (SWIR) Sales Quantity by Application (2026-2031) & (Units)

Table 121. Asia-Pacific Short Wave Infrared (SWIR) Sales Quantity by Region (2020-2025) & (Units)

Table 122. Asia-Pacific Short Wave Infrared (SWIR) Sales Quantity by Region (2026-2031) & (Units)

Table 123. Asia-Pacific Short Wave Infrared (SWIR) Consumption Value by Region (2020-2025) & (USD Million)

Table 124. Asia-Pacific Short Wave Infrared (SWIR) Consumption Value by Region (2026-2031) & (USD Million)

Table 125. South America Short Wave Infrared (SWIR) Sales Quantity by Type (2020-2025) & (Units)

Table 126. South America Short Wave Infrared (SWIR) Sales Quantity by Type (2026-2031) & (Units)

Table 127. South America Short Wave Infrared (SWIR) Sales Quantity by Application (2020-2025) & (Units)

Table 128. South America Short Wave Infrared (SWIR) Sales Quantity by Application (2026-2031) & (Units)

Table 129. South America Short Wave Infrared (SWIR) Sales Quantity by Country (2020-2025) & (Units)

Table 130. South America Short Wave Infrared (SWIR) Sales Quantity by Country (2026-2031) & (Units)

Table 131. South America Short Wave Infrared (SWIR) Consumption Value by Country (2020-2025) & (USD Million)

Table 132. South America Short Wave Infrared (SWIR) Consumption Value by Country (2026-2031) & (USD Million)

Table 133. Middle East & Africa Short Wave Infrared (SWIR) Sales Quantity by Type (2020-2025) & (Units)

Table 134. Middle East & Africa Short Wave Infrared (SWIR) Sales Quantity by Type (2026-2031) & (Units)

Table 135. Middle East & Africa Short Wave Infrared (SWIR) Sales Quantity by

Application (2020-2025) & (Units)

Table 136. Middle East & Africa Short Wave Infrared (SWIR) Sales Quantity by

Application (2026-2031) & (Units)

Table 137. Middle East & Africa Short Wave Infrared (SWIR) Sales Quantity by Country
(2020-2025) & (Units)

Table 138. Middle East & Africa Short Wave Infrared (SWIR) Sales Quantity by Country
(2026-2031) & (Units)

Table 139. Middle East & Africa Short Wave Infrared (SWIR) Consumption Value by
Country (2020-2025) & (USD Million)

Table 140. Middle East & Africa Short Wave Infrared (SWIR) Consumption Value by
Country (2026-2031) & (USD Million)

Table 141. Short Wave Infrared (SWIR) Raw Material

Table 142. Key Manufacturers of Short Wave Infrared (SWIR) Raw Materials

Table 143. Short Wave Infrared (SWIR) Typical Distributors

Table 144. Short Wave Infrared (SWIR) Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Short Wave Infrared (SWIR) Picture

Figure 2. Global Short Wave Infrared (SWIR) Revenue by Type, (USD Million), 2020 & 2024 & 2031

Figure 3. Global Short Wave Infrared (SWIR) Revenue Market Share by Type in 2024

Figure 4. SWIR Area Scan Camera Examples

Figure 5. SWIR Line Scan Camera Examples

Figure 6. Global Short Wave Infrared (SWIR) Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Figure 7. Global Short Wave Infrared (SWIR) Revenue Market Share by Application in 2024

Figure 8. Industrial Application Examples

Figure 9. Military and Defense Examples

Figure 10. Scientific Research Examples

Figure 11. Others Examples

Figure 12. Global Short Wave Infrared (SWIR) Consumption Value, (USD Million): 2020 & 2024 & 2031

Figure 13. Global Short Wave Infrared (SWIR) Consumption Value and Forecast (2020-2031) & (USD Million)

Figure 14. Global Short Wave Infrared (SWIR) Sales Quantity (2020-2031) & (Units)

Figure 15. Global Short Wave Infrared (SWIR) Price (2020-2031) & (US\$/Unit)

Figure 16. Global Short Wave Infrared (SWIR) Sales Quantity Market Share by Manufacturer in 2024

Figure 17. Global Short Wave Infrared (SWIR) Revenue Market Share by Manufacturer in 2024

Figure 18. Producer Shipments of Short Wave Infrared (SWIR) by Manufacturer Sales (\$MM) and Market Share (%): 2024

Figure 19. Top 3 Short Wave Infrared (SWIR) Manufacturer (Revenue) Market Share in 2024

Figure 20. Top 6 Short Wave Infrared (SWIR) Manufacturer (Revenue) Market Share in 2024

Figure 21. Global Short Wave Infrared (SWIR) Sales Quantity Market Share by Region (2020-2031)

Figure 22. Global Short Wave Infrared (SWIR) Consumption Value Market Share by Region (2020-2031)

Figure 23. North America Short Wave Infrared (SWIR) Consumption Value (2020-2031)

& (USD Million)

Figure 24. Europe Short Wave Infrared (SWIR) Consumption Value (2020-2031) & (USD Million)

Figure 25. Asia-Pacific Short Wave Infrared (SWIR) Consumption Value (2020-2031) & (USD Million)

Figure 26. South America Short Wave Infrared (SWIR) Consumption Value (2020-2031) & (USD Million)

Figure 27. Middle East & Africa Short Wave Infrared (SWIR) Consumption Value (2020-2031) & (USD Million)

Figure 28. Global Short Wave Infrared (SWIR) Sales Quantity Market Share by Type (2020-2031)

Figure 29. Global Short Wave Infrared (SWIR) Consumption Value Market Share by Type (2020-2031)

Figure 30. Global Short Wave Infrared (SWIR) Average Price by Type (2020-2031) & (USK\$/Unit)

Figure 31. Global Short Wave Infrared (SWIR) Sales Quantity Market Share by Application (2020-2031)

Figure 32. Global Short Wave Infrared (SWIR) Revenue Market Share by Application (2020-2031)

Figure 33. Global Short Wave Infrared (SWIR) Average Price by Application (2020-2031) & (USK\$/Unit)

Figure 34. North America Short Wave Infrared (SWIR) Sales Quantity Market Share by Type (2020-2031)

Figure 35. North America Short Wave Infrared (SWIR) Sales Quantity Market Share by Application (2020-2031)

Figure 36. North America Short Wave Infrared (SWIR) Sales Quantity Market Share by Country (2020-2031)

Figure 37. North America Short Wave Infrared (SWIR) Consumption Value Market Share by Country (2020-2031)

Figure 38. United States Short Wave Infrared (SWIR) Consumption Value (2020-2031) & (USD Million)

Figure 39. Canada Short Wave Infrared (SWIR) Consumption Value (2020-2031) & (USD Million)

Figure 40. Mexico Short Wave Infrared (SWIR) Consumption Value (2020-2031) & (USD Million)

Figure 41. Europe Short Wave Infrared (SWIR) Sales Quantity Market Share by Type (2020-2031)

Figure 42. Europe Short Wave Infrared (SWIR) Sales Quantity Market Share by Application (2020-2031)

Figure 43. Europe Short Wave Infrared (SWIR) Sales Quantity Market Share by Country (2020-2031)

Figure 44. Europe Short Wave Infrared (SWIR) Consumption Value Market Share by Country (2020-2031)

Figure 45. Germany Short Wave Infrared (SWIR) Consumption Value (2020-2031) & (USD Million)

Figure 46. France Short Wave Infrared (SWIR) Consumption Value (2020-2031) & (USD Million)

Figure 47. United Kingdom Short Wave Infrared (SWIR) Consumption Value (2020-2031) & (USD Million)

Figure 48. Russia Short Wave Infrared (SWIR) Consumption Value (2020-2031) & (USD Million)

Figure 49. Italy Short Wave Infrared (SWIR) Consumption Value (2020-2031) & (USD Million)

Figure 50. Asia-Pacific Short Wave Infrared (SWIR) Sales Quantity Market Share by Type (2020-2031)

Figure 51. Asia-Pacific Short Wave Infrared (SWIR) Sales Quantity Market Share by Application (2020-2031)

Figure 52. Asia-Pacific Short Wave Infrared (SWIR) Sales Quantity Market Share by Region (2020-2031)

Figure 53. Asia-Pacific Short Wave Infrared (SWIR) Consumption Value Market Share by Region (2020-2031)

Figure 54. China Short Wave Infrared (SWIR) Consumption Value (2020-2031) & (USD Million)

Figure 55. Japan Short Wave Infrared (SWIR) Consumption Value (2020-2031) & (USD Million)

Figure 56. South Korea Short Wave Infrared (SWIR) Consumption Value (2020-2031) & (USD Million)

Figure 57. India Short Wave Infrared (SWIR) Consumption Value (2020-2031) & (USD Million)

Figure 58. Southeast Asia Short Wave Infrared (SWIR) Consumption Value (2020-2031) & (USD Million)

Figure 59. Australia Short Wave Infrared (SWIR) Consumption Value (2020-2031) & (USD Million)

Figure 60. South America Short Wave Infrared (SWIR) Sales Quantity Market Share by Type (2020-2031)

Figure 61. South America Short Wave Infrared (SWIR) Sales Quantity Market Share by Application (2020-2031)

Figure 62. South America Short Wave Infrared (SWIR) Sales Quantity Market Share by

Country (2020-2031)

Figure 63. South America Short Wave Infrared (SWIR) Consumption Value Market Share by Country (2020-2031)

Figure 64. Brazil Short Wave Infrared (SWIR) Consumption Value (2020-2031) & (USD Million)

Figure 65. Argentina Short Wave Infrared (SWIR) Consumption Value (2020-2031) & (USD Million)

Figure 66. Middle East & Africa Short Wave Infrared (SWIR) Sales Quantity Market Share by Type (2020-2031)

Figure 67. Middle East & Africa Short Wave Infrared (SWIR) Sales Quantity Market Share by Application (2020-2031)

Figure 68. Middle East & Africa Short Wave Infrared (SWIR) Sales Quantity Market Share by Country (2020-2031)

Figure 69. Middle East & Africa Short Wave Infrared (SWIR) Consumption Value Market Share by Country (2020-2031)

Figure 70. Turkey Short Wave Infrared (SWIR) Consumption Value (2020-2031) & (USD Million)

Figure 71. Egypt Short Wave Infrared (SWIR) Consumption Value (2020-2031) & (USD Million)

Figure 72. Saudi Arabia Short Wave Infrared (SWIR) Consumption Value (2020-2031) & (USD Million)

Figure 73. South Africa Short Wave Infrared (SWIR) Consumption Value (2020-2031) & (USD Million)

Figure 74. Short Wave Infrared (SWIR) Market Drivers

Figure 75. Short Wave Infrared (SWIR) Market Restraints

Figure 76. Short Wave Infrared (SWIR) Market Trends

Figure 77. Porters Five Forces Analysis

Figure 78. Manufacturing Cost Structure Analysis of Short Wave Infrared (SWIR) in 2024

Figure 79. Manufacturing Process Analysis of Short Wave Infrared (SWIR)

Figure 80. Short Wave Infrared (SWIR) Industrial Chain

Figure 81. Sales Channel: Direct to End-User vs Distributors

Figure 82. Direct Channel Pros & Cons

Figure 83. Indirect Channel Pros & Cons

Figure 84. Methodology

Figure 85. Research Process and Data Source

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