

Shortwave Infrared (SWIR) Camera Market, Global Outlook and Forecast 2022-2028

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Abstracts

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.

This report contains market size and forecasts of Shortwave Infrared (SWIR) Camera in global, including the following market information:

Global Shortwave Infrared (SWIR) Camera Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global Shortwave Infrared (SWIR) Camera Market Sales, 2017-2022, 2023-2028, (Units)

Global top five Shortwave Infrared (SWIR) Camera companies in 2021 (%)

The global Shortwave Infrared (SWIR) Camera market was valued at 149.7 million in 2021 and is projected to reach US\$ 260.4 million by 2028, at a CAGR of 8.2% during the forecast period.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.

SWIR Area Cameras Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of Shortwave Infrared (SWIR) Camera include FLIR Systems, Hamamatsu Photonics, Sensors Unlimited, Xenics, Princeton Instruments, Allied Vision Technologies, IRCameras, Fluxdata and InView Technology, etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Shortwave Infrared (SWIR) Camera manufacturers, suppliers, distributors and industry experts on this

industry, involving the sales, revenue, demand, price change, product type, recent development and plan, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global Shortwave Infrared (SWIR) Camera Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (Units)

Global Shortwave Infrared (SWIR) Camera Market Segment Percentages, by Type, 2021 (%)

SWIR Area Cameras

SWIR Linear Cameras

Global Shortwave Infrared (SWIR) Camera Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (Units)

Global Shortwave Infrared (SWIR) Camera Market Segment Percentages, by Application, 2021 (%)

Industrial

Military & Defense

Scientific Research

Others

Global Shortwave Infrared (SWIR) Camera Market, By Region and Country, 2017-2022, 2023-2028 (\$ Millions) & (Units)

Global Shortwave Infrared (SWIR) Camera Market Segment Percentages, By Region and Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

Rest of Middle East & Africa

Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies Shortwave Infrared (SWIR) Camera revenues in global market, 2017-2022 (Estimated), (\$ millions)

Key companies Shortwave Infrared (SWIR) Camera revenues share in global market, 2021 (%)

Key companies Shortwave Infrared (SWIR) Camera sales in global market, 2017-2022 (Estimated), (Units)

Key companies Shortwave Infrared (SWIR) Camera sales share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

FLIR Systems

Hamamatsu Photonics

Sensors Unlimited

Xenics

Princeton Instruments

Allied Vision Technologies

IRCameras

Fluxdata

InView Technology

New Imaging Technologies

Photonic Science

Infiniti Electro-Optics

Contents

1 INTRODUCTION TO RESEARCH & ANALYSIS REPORTS

- 1.1 Shortwave Infrared (SWIR) Camera Market Definition
- 1.2 Market Segments
 - 1.2.1 Market by Type
 - 1.2.2 Market by Application
- 1.3 Global Shortwave Infrared (SWIR) Camera Market Overview
- 1.4 Features & Benefits of This Report
- 1.5 Methodology & Sources of Information
 - 1.5.1 Research Methodology
 - 1.5.2 Research Process
 - 1.5.3 Base Year
 - 1.5.4 Report Assumptions & Caveats

2 GLOBAL SHORTWAVE INFRARED (SWIR) CAMERA OVERALL MARKET SIZE

- 2.1 Global Shortwave Infrared (SWIR) Camera Market Size: 2021 VS 2028
- 2.2 Global Shortwave Infrared (SWIR) Camera Revenue, Prospects & Forecasts: 2017-2028
- 2.3 Global Shortwave Infrared (SWIR) Camera Sales: 2017-2028

3 COMPANY LANDSCAPE

- 3.1 Top Shortwave Infrared (SWIR) Camera Players in Global Market
- 3.2 Top Global Shortwave Infrared (SWIR) Camera Companies Ranked by Revenue
- 3.3 Global Shortwave Infrared (SWIR) Camera Revenue by Companies
- 3.4 Global Shortwave Infrared (SWIR) Camera Sales by Companies
- 3.5 Global Shortwave Infrared (SWIR) Camera Price by Manufacturer (2017-2022)
- 3.6 Top 3 and Top 5 Shortwave Infrared (SWIR) Camera Companies in Global Market, by Revenue in 2021
- 3.7 Global Manufacturers Shortwave Infrared (SWIR) Camera Product Type
- 3.8 Tier 1, Tier 2 and Tier 3 Shortwave Infrared (SWIR) Camera Players in Global Market
 - 3.8.1 List of Global Tier 1 Shortwave Infrared (SWIR) Camera Companies
 - 3.8.2 List of Global Tier 2 and Tier 3 Shortwave Infrared (SWIR) Camera Companies

4 SIGHTS BY PRODUCT

4.1 Overview

4.1.1 By Type - Global Shortwave Infrared (SWIR) Camera Market Size Markets, 2021 & 2028

4.1.2 SWIR Area Cameras

4.1.3 SWIR Linear Cameras

4.2 By Type - Global Shortwave Infrared (SWIR) Camera Revenue & Forecasts

4.2.1 By Type - Global Shortwave Infrared (SWIR) Camera Revenue, 2017-2022

4.2.2 By Type - Global Shortwave Infrared (SWIR) Camera Revenue, 2023-2028

4.2.3 By Type - Global Shortwave Infrared (SWIR) Camera Revenue Market Share, 2017-2028

4.3 By Type - Global Shortwave Infrared (SWIR) Camera Sales & Forecasts

4.3.1 By Type - Global Shortwave Infrared (SWIR) Camera Sales, 2017-2022

4.3.2 By Type - Global Shortwave Infrared (SWIR) Camera Sales, 2023-2028

4.3.3 By Type - Global Shortwave Infrared (SWIR) Camera Sales Market Share, 2017-2028

4.4 By Type - Global Shortwave Infrared (SWIR) Camera Price (Manufacturers Selling Prices), 2017-2028

5 SIGHTS BY APPLICATION

5.1 Overview

5.1.1 By Application - Global Shortwave Infrared (SWIR) Camera Market Size, 2021 & 2028

5.1.2 Industrial

5.1.3 Military & Defense

5.1.4 Scientific Research

5.1.5 Others

5.2 By Application - Global Shortwave Infrared (SWIR) Camera Revenue & Forecasts

5.2.1 By Application - Global Shortwave Infrared (SWIR) Camera Revenue, 2017-2022

5.2.2 By Application - Global Shortwave Infrared (SWIR) Camera Revenue, 2023-2028

5.2.3 By Application - Global Shortwave Infrared (SWIR) Camera Revenue Market Share, 2017-2028

5.3 By Application - Global Shortwave Infrared (SWIR) Camera Sales & Forecasts

5.3.1 By Application - Global Shortwave Infrared (SWIR) Camera Sales, 2017-2022

5.3.2 By Application - Global Shortwave Infrared (SWIR) Camera Sales, 2023-2028

5.3.3 By Application - Global Shortwave Infrared (SWIR) Camera Sales Market Share, 2017-2028

5.4 By Application - Global Shortwave Infrared (SWIR) Camera Price (Manufacturers

Selling Prices), 2017-2028

6 SIGHTS BY REGION

6.1 By Region - Global Shortwave Infrared (SWIR) Camera Market Size, 2021 & 2028

6.2 By Region - Global Shortwave Infrared (SWIR) Camera Revenue & Forecasts

6.2.1 By Region - Global Shortwave Infrared (SWIR) Camera Revenue, 2017-2022

6.2.2 By Region - Global Shortwave Infrared (SWIR) Camera Revenue, 2023-2028

6.2.3 By Region - Global Shortwave Infrared (SWIR) Camera Revenue Market Share, 2017-2028

6.3 By Region - Global Shortwave Infrared (SWIR) Camera Sales & Forecasts

6.3.1 By Region - Global Shortwave Infrared (SWIR) Camera Sales, 2017-2022

6.3.2 By Region - Global Shortwave Infrared (SWIR) Camera Sales, 2023-2028

6.3.3 By Region - Global Shortwave Infrared (SWIR) Camera Sales Market Share, 2017-2028

6.4 North America

6.4.1 By Country - North America Shortwave Infrared (SWIR) Camera Revenue, 2017-2028

6.4.2 By Country - North America Shortwave Infrared (SWIR) Camera Sales, 2017-2028

6.4.3 US Shortwave Infrared (SWIR) Camera Market Size, 2017-2028

6.4.4 Canada Shortwave Infrared (SWIR) Camera Market Size, 2017-2028

6.4.5 Mexico Shortwave Infrared (SWIR) Camera Market Size, 2017-2028

6.5 Europe

6.5.1 By Country - Europe Shortwave Infrared (SWIR) Camera Revenue, 2017-2028

6.5.2 By Country - Europe Shortwave Infrared (SWIR) Camera Sales, 2017-2028

6.5.3 Germany Shortwave Infrared (SWIR) Camera Market Size, 2017-2028

6.5.4 France Shortwave Infrared (SWIR) Camera Market Size, 2017-2028

6.5.5 U.K. Shortwave Infrared (SWIR) Camera Market Size, 2017-2028

6.5.6 Italy Shortwave Infrared (SWIR) Camera Market Size, 2017-2028

6.5.7 Russia Shortwave Infrared (SWIR) Camera Market Size, 2017-2028

6.5.8 Nordic Countries Shortwave Infrared (SWIR) Camera Market Size, 2017-2028

6.5.9 Benelux Shortwave Infrared (SWIR) Camera Market Size, 2017-2028

6.6 Asia

6.6.1 By Region - Asia Shortwave Infrared (SWIR) Camera Revenue, 2017-2028

6.6.2 By Region - Asia Shortwave Infrared (SWIR) Camera Sales, 2017-2028

6.6.3 China Shortwave Infrared (SWIR) Camera Market Size, 2017-2028

6.6.4 Japan Shortwave Infrared (SWIR) Camera Market Size, 2017-2028

6.6.5 South Korea Shortwave Infrared (SWIR) Camera Market Size, 2017-2028

6.6.6 Southeast Asia Shortwave Infrared (SWIR) Camera Market Size, 2017-2028

6.6.7 India Shortwave Infrared (SWIR) Camera Market Size, 2017-2028

6.7 South America

6.7.1 By Country - South America Shortwave Infrared (SWIR) Camera Revenue, 2017-2028

6.7.2 By Country - South America Shortwave Infrared (SWIR) Camera Sales, 2017-2028

6.7.3 Brazil Shortwave Infrared (SWIR) Camera Market Size, 2017-2028

6.7.4 Argentina Shortwave Infrared (SWIR) Camera Market Size, 2017-2028

6.8 Middle East & Africa

6.8.1 By Country - Middle East & Africa Shortwave Infrared (SWIR) Camera Revenue, 2017-2028

6.8.2 By Country - Middle East & Africa Shortwave Infrared (SWIR) Camera Sales, 2017-2028

6.8.3 Turkey Shortwave Infrared (SWIR) Camera Market Size, 2017-2028

6.8.4 Israel Shortwave Infrared (SWIR) Camera Market Size, 2017-2028

6.8.5 Saudi Arabia Shortwave Infrared (SWIR) Camera Market Size, 2017-2028

6.8.6 UAE Shortwave Infrared (SWIR) Camera Market Size, 2017-2028

7 MANUFACTURERS & BRANDS PROFILES

7.1 FLIR Systems

7.1.1 FLIR Systems Corporate Summary

7.1.2 FLIR Systems Business Overview

7.1.3 FLIR Systems Shortwave Infrared (SWIR) Camera Major Product Offerings

7.1.4 FLIR Systems Shortwave Infrared (SWIR) Camera Sales and Revenue in Global (2017-2022)

7.1.5 FLIR Systems Key News

7.2 Hamamatsu Photonics

7.2.1 Hamamatsu Photonics Corporate Summary

7.2.2 Hamamatsu Photonics Business Overview

7.2.3 Hamamatsu Photonics Shortwave Infrared (SWIR) Camera Major Product Offerings

7.2.4 Hamamatsu Photonics Shortwave Infrared (SWIR) Camera Sales and Revenue in Global (2017-2022)

7.2.5 Hamamatsu Photonics Key News

7.3 Sensors Unlimited

7.3.1 Sensors Unlimited Corporate Summary

7.3.2 Sensors Unlimited Business Overview

- 7.3.3 Sensors Unlimited Shortwave Infrared (SWIR) Camera Major Product Offerings
- 7.3.4 Sensors Unlimited Shortwave Infrared (SWIR) Camera Sales and Revenue in Global (2017-2022)
- 7.3.5 Sensors Unlimited Key News
- 7.4 Xenics
 - 7.4.1 Xenics Corporate Summary
 - 7.4.2 Xenics Business Overview
 - 7.4.3 Xenics Shortwave Infrared (SWIR) Camera Major Product Offerings
 - 7.4.4 Xenics Shortwave Infrared (SWIR) Camera Sales and Revenue in Global (2017-2022)
 - 7.4.5 Xenics Key News
- 7.5 Princeton Instruments
 - 7.5.1 Princeton Instruments Corporate Summary
 - 7.5.2 Princeton Instruments Business Overview
 - 7.5.3 Princeton Instruments Shortwave Infrared (SWIR) Camera Major Product Offerings
 - 7.5.4 Princeton Instruments Shortwave Infrared (SWIR) Camera Sales and Revenue in Global (2017-2022)
 - 7.5.5 Princeton Instruments Key News
- 7.6 Allied Vision Technologies
 - 7.6.1 Allied Vision Technologies Corporate Summary
 - 7.6.2 Allied Vision Technologies Business Overview
 - 7.6.3 Allied Vision Technologies Shortwave Infrared (SWIR) Camera Major Product Offerings
 - 7.6.4 Allied Vision Technologies Shortwave Infrared (SWIR) Camera Sales and Revenue in Global (2017-2022)
 - 7.6.5 Allied Vision Technologies Key News
- 7.7 IRCameras
 - 7.7.1 IRCameras Corporate Summary
 - 7.7.2 IRCameras Business Overview
 - 7.7.3 IRCameras Shortwave Infrared (SWIR) Camera Major Product Offerings
 - 7.7.4 IRCameras Shortwave Infrared (SWIR) Camera Sales and Revenue in Global (2017-2022)
 - 7.7.5 IRCameras Key News
- 7.8 Fluxdata
 - 7.8.1 Fluxdata Corporate Summary
 - 7.8.2 Fluxdata Business Overview
 - 7.8.3 Fluxdata Shortwave Infrared (SWIR) Camera Major Product Offerings
 - 7.8.4 Fluxdata Shortwave Infrared (SWIR) Camera Sales and Revenue in Global

(2017-2022)

7.8.5 Fluxdata Key News

7.9 InView Technology

7.9.1 InView Technology Corporate Summary

7.9.2 InView Technology Business Overview

7.9.3 InView Technology Shortwave Infrared (SWIR) Camera Major Product Offerings

7.9.4 InView Technology Shortwave Infrared (SWIR) Camera Sales and Revenue in Global (2017-2022)

7.9.5 InView Technology Key News

7.10 New Imaging Technologies

7.10.1 New Imaging Technologies Corporate Summary

7.10.2 New Imaging Technologies Business Overview

7.10.3 New Imaging Technologies Shortwave Infrared (SWIR) Camera Major Product Offerings

7.10.4 New Imaging Technologies Shortwave Infrared (SWIR) Camera Sales and Revenue in Global (2017-2022)

7.10.5 New Imaging Technologies Key News

7.11 Photonic Science

7.11.1 Photonic Science Corporate Summary

7.11.2 Photonic Science Shortwave Infrared (SWIR) Camera Business Overview

7.11.3 Photonic Science Shortwave Infrared (SWIR) Camera Major Product Offerings

7.11.4 Photonic Science Shortwave Infrared (SWIR) Camera Sales and Revenue in Global (2017-2022)

7.11.5 Photonic Science Key News

7.12 Infiniti Electro-Optics

7.12.1 Infiniti Electro-Optics Corporate Summary

7.12.2 Infiniti Electro-Optics Shortwave Infrared (SWIR) Camera Business Overview

7.12.3 Infiniti Electro-Optics Shortwave Infrared (SWIR) Camera Major Product Offerings

7.12.4 Infiniti Electro-Optics Shortwave Infrared (SWIR) Camera Sales and Revenue in Global (2017-2022)

7.12.5 Infiniti Electro-Optics Key News

8 GLOBAL SHORTWAVE INFRARED (SWIR) CAMERA PRODUCTION CAPACITY, ANALYSIS

8.1 Global Shortwave Infrared (SWIR) Camera Production Capacity, 2017-2028

8.2 Shortwave Infrared (SWIR) Camera Production Capacity of Key Manufacturers in Global Market

8.3 Global Shortwave Infrared (SWIR) Camera Production by Region

9 KEY MARKET TRENDS, OPPORTUNITY, DRIVERS AND RESTRAINTS

9.1 Market Opportunities & Trends

9.2 Market Drivers

9.3 Market Restraints

10 SHORTWAVE INFRARED (SWIR) CAMERA SUPPLY CHAIN ANALYSIS

10.1 Shortwave Infrared (SWIR) Camera Industry Value Chain

10.2 Shortwave Infrared (SWIR) Camera Upstream Market

10.3 Shortwave Infrared (SWIR) Camera Downstream and Clients

10.4 Marketing Channels Analysis

10.4.1 Marketing Channels

10.4.2 Shortwave Infrared (SWIR) Camera Distributors and Sales Agents in Global

11 CONCLUSION

12 APPENDIX

12.1 Note

12.2 Examples of Clients

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Key Players of Shortwave Infrared (SWIR) Camera in Global Market

Table 2. Top Shortwave Infrared (SWIR) Camera Players in Global Market, Ranking by Revenue (2021)

Table 3. Global Shortwave Infrared (SWIR) Camera Revenue by Companies, (US\$, Mn), 2017-2022

Table 4. Global Shortwave Infrared (SWIR) Camera Revenue Share by Companies, 2017-2022

Table 5. Global Shortwave Infrared (SWIR) Camera Sales by Companies, (Units), 2017-2022

Table 6. Global Shortwave Infrared (SWIR) Camera Sales Share by Companies, 2017-2022

Table 7. Key Manufacturers Shortwave Infrared (SWIR) Camera Price (2017-2022) & (USD/Unit)

Table 8. Global Manufacturers Shortwave Infrared (SWIR) Camera Product Type

Table 9. List of Global Tier 1 Shortwave Infrared (SWIR) Camera Companies, Revenue (US\$, Mn) in 2021 and Market Share

Table 10. List of Global Tier 2 and Tier 3 Shortwave Infrared (SWIR) Camera Companies, Revenue (US\$, Mn) in 2021 and Market Share

Table 11. By Type – Global Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2021 & 2028

Table 12. By Type - Global Shortwave Infrared (SWIR) Camera Revenue (US\$, Mn), 2017-2022

Table 13. By Type - Global Shortwave Infrared (SWIR) Camera Revenue (US\$, Mn), 2023-2028

Table 14. By Type - Global Shortwave Infrared (SWIR) Camera Sales (Units), 2017-2022

Table 15. By Type - Global Shortwave Infrared (SWIR) Camera Sales (Units), 2023-2028

Table 16. By Application – Global Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2021 & 2028

Table 17. By Application - Global Shortwave Infrared (SWIR) Camera Revenue (US\$, Mn), 2017-2022

Table 18. By Application - Global Shortwave Infrared (SWIR) Camera Revenue (US\$, Mn), 2023-2028

Table 19. By Application - Global Shortwave Infrared (SWIR) Camera Sales (Units),

2017-2022

Table 20. By Application - Global Shortwave Infrared (SWIR) Camera Sales (Units), 2023-2028

Table 21. By Region – Global Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2021 VS 2028

Table 22. By Region - Global Shortwave Infrared (SWIR) Camera Revenue (US\$, Mn), 2017-2022

Table 23. By Region - Global Shortwave Infrared (SWIR) Camera Revenue (US\$, Mn), 2023-2028

Table 24. By Region - Global Shortwave Infrared (SWIR) Camera Sales (Units), 2017-2022

Table 25. By Region - Global Shortwave Infrared (SWIR) Camera Sales (Units), 2023-2028

Table 26. By Country - North America Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2017-2022

Table 27. By Country - North America Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2023-2028

Table 28. By Country - North America Shortwave Infrared (SWIR) Camera Sales, (Units), 2017-2022

Table 29. By Country - North America Shortwave Infrared (SWIR) Camera Sales, (Units), 2023-2028

Table 30. By Country - Europe Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2017-2022

Table 31. By Country - Europe Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2023-2028

Table 32. By Country - Europe Shortwave Infrared (SWIR) Camera Sales, (Units), 2017-2022

Table 33. By Country - Europe Shortwave Infrared (SWIR) Camera Sales, (Units), 2023-2028

Table 34. By Region - Asia Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2017-2022

Table 35. By Region - Asia Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2023-2028

Table 36. By Region - Asia Shortwave Infrared (SWIR) Camera Sales, (Units), 2017-2022

Table 37. By Region - Asia Shortwave Infrared (SWIR) Camera Sales, (Units), 2023-2028

Table 38. By Country - South America Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2017-2022

Table 39. By Country - South America Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2023-2028

Table 40. By Country - South America Shortwave Infrared (SWIR) Camera Sales, (Units), 2017-2022

Table 41. By Country - South America Shortwave Infrared (SWIR) Camera Sales, (Units), 2023-2028

Table 42. By Country - Middle East & Africa Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2017-2022

Table 43. By Country - Middle East & Africa Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2023-2028

Table 44. By Country - Middle East & Africa Shortwave Infrared (SWIR) Camera Sales, (Units), 2017-2022

Table 45. By Country - Middle East & Africa Shortwave Infrared (SWIR) Camera Sales, (Units), 2023-2028

Table 46. FLIR Systems Corporate Summary

Table 47. FLIR Systems Shortwave Infrared (SWIR) Camera Product Offerings

Table 48. FLIR Systems Shortwave Infrared (SWIR) Camera Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)

Table 49. Hamamatsu Photonics Corporate Summary

Table 50. Hamamatsu Photonics Shortwave Infrared (SWIR) Camera Product Offerings

Table 51. Hamamatsu Photonics Shortwave Infrared (SWIR) Camera Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)

Table 52. Sensors Unlimited Corporate Summary

Table 53. Sensors Unlimited Shortwave Infrared (SWIR) Camera Product Offerings

Table 54. Sensors Unlimited Shortwave Infrared (SWIR) Camera Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)

Table 55. Xenics Corporate Summary

Table 56. Xenics Shortwave Infrared (SWIR) Camera Product Offerings

Table 57. Xenics Shortwave Infrared (SWIR) Camera Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)

Table 58. Princeton Instruments Corporate Summary

Table 59. Princeton Instruments Shortwave Infrared (SWIR) Camera Product Offerings

Table 60. Princeton Instruments Shortwave Infrared (SWIR) Camera Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)

Table 61. Allied Vision Technologies Corporate Summary

Table 62. Allied Vision Technologies Shortwave Infrared (SWIR) Camera Product Offerings

Table 63. Allied Vision Technologies Shortwave Infrared (SWIR) Camera Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)

Table 64. IRCameras Corporate Summary
Table 65. IRCameras Shortwave Infrared (SWIR) Camera Product Offerings
Table 66. IRCameras Shortwave Infrared (SWIR) Camera Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)
Table 67. Fluxdata Corporate Summary
Table 68. Fluxdata Shortwave Infrared (SWIR) Camera Product Offerings
Table 69. Fluxdata Shortwave Infrared (SWIR) Camera Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)
Table 70. InView Technology Corporate Summary
Table 71. InView Technology Shortwave Infrared (SWIR) Camera Product Offerings
Table 72. InView Technology Shortwave Infrared (SWIR) Camera Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)
Table 73. New Imaging Technologies Corporate Summary
Table 74. New Imaging Technologies Shortwave Infrared (SWIR) Camera Product Offerings
Table 75. New Imaging Technologies Shortwave Infrared (SWIR) Camera Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)
Table 76. Photonic Science Corporate Summary
Table 77. Photonic Science Shortwave Infrared (SWIR) Camera Product Offerings
Table 78. Photonic Science Shortwave Infrared (SWIR) Camera Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)
Table 79. Infiniti Electro-Optics Corporate Summary
Table 80. Infiniti Electro-Optics Shortwave Infrared (SWIR) Camera Product Offerings
Table 81. Infiniti Electro-Optics Shortwave Infrared (SWIR) Camera Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)
Table 82. Shortwave Infrared (SWIR) Camera Production Capacity (Units) of Key Manufacturers in Global Market, 2020-2022 (Units)
Table 83. Global Shortwave Infrared (SWIR) Camera Capacity Market Share of Key Manufacturers, 2020-2022
Table 84. Global Shortwave Infrared (SWIR) Camera Production by Region, 2017-2022 (Units)
Table 85. Global Shortwave Infrared (SWIR) Camera Production by Region, 2023-2028 (Units)
Table 86. Shortwave Infrared (SWIR) Camera Market Opportunities & Trends in Global Market
Table 87. Shortwave Infrared (SWIR) Camera Market Drivers in Global Market
Table 88. Shortwave Infrared (SWIR) Camera Market Restraints in Global Market
Table 89. Shortwave Infrared (SWIR) Camera Raw Materials
Table 90. Shortwave Infrared (SWIR) Camera Raw Materials Suppliers in Global Market

Table 91. Typical Shortwave Infrared (SWIR) Camera Downstream

Table 92. Shortwave Infrared (SWIR) Camera Downstream Clients in Global Market

Table 93. Shortwave Infrared (SWIR) Camera Distributors and Sales Agents in Global Market

List Of Figures

LIST OF FIGURES

- Figure 1. Shortwave Infrared (SWIR) Camera Segment by Type
- Figure 2. Shortwave Infrared (SWIR) Camera Segment by Application
- Figure 3. Global Shortwave Infrared (SWIR) Camera Market Overview: 2021
- Figure 4. Key Caveats
- Figure 5. Global Shortwave Infrared (SWIR) Camera Market Size: 2021 VS 2028 (US\$, Mn)
- Figure 6. Global Shortwave Infrared (SWIR) Camera Revenue, 2017-2028 (US\$, Mn)
- Figure 7. Shortwave Infrared (SWIR) Camera Sales in Global Market: 2017-2028 (Units)
- Figure 8. The Top 3 and 5 Players Market Share by Shortwave Infrared (SWIR) Camera Revenue in 2021
- Figure 9. By Type - Global Shortwave Infrared (SWIR) Camera Sales Market Share, 2017-2028
- Figure 10. By Type - Global Shortwave Infrared (SWIR) Camera Revenue Market Share, 2017-2028
- Figure 11. By Type - Global Shortwave Infrared (SWIR) Camera Price (USD/Unit), 2017-2028
- Figure 12. By Application - Global Shortwave Infrared (SWIR) Camera Sales Market Share, 2017-2028
- Figure 13. By Application - Global Shortwave Infrared (SWIR) Camera Revenue Market Share, 2017-2028
- Figure 14. By Application - Global Shortwave Infrared (SWIR) Camera Price (USD/Unit), 2017-2028
- Figure 15. By Region - Global Shortwave Infrared (SWIR) Camera Sales Market Share, 2017-2028
- Figure 16. By Region - Global Shortwave Infrared (SWIR) Camera Revenue Market Share, 2017-2028
- Figure 17. By Country - North America Shortwave Infrared (SWIR) Camera Revenue Market Share, 2017-2028
- Figure 18. By Country - North America Shortwave Infrared (SWIR) Camera Sales Market Share, 2017-2028
- Figure 19. US Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2017-2028
- Figure 20. Canada Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2017-2028
- Figure 21. Mexico Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2017-2028
- Figure 22. By Country - Europe Shortwave Infrared (SWIR) Camera Revenue Market

Share, 2017-2028

Figure 23. By Country - Europe Shortwave Infrared (SWIR) Camera Sales Market Share, 2017-2028

Figure 24. Germany Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2017-2028

Figure 25. France Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2017-2028

Figure 26. U.K. Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2017-2028

Figure 27. Italy Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2017-2028

Figure 28. Russia Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2017-2028

Figure 29. Nordic Countries Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2017-2028

Figure 30. Benelux Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2017-2028

Figure 31. By Region - Asia Shortwave Infrared (SWIR) Camera Revenue Market Share, 2017-2028

Figure 32. By Region - Asia Shortwave Infrared (SWIR) Camera Sales Market Share, 2017-2028

Figure 33. China Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2017-2028

Figure 34. Japan Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2017-2028

Figure 35. South Korea Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2017-2028

Figure 36. Southeast Asia Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2017-2028

Figure 37. India Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2017-2028

Figure 38. By Country - South America Shortwave Infrared (SWIR) Camera Revenue Market Share, 2017-2028

Figure 39. By Country - South America Shortwave Infrared (SWIR) Camera Sales Market Share, 2017-2028

Figure 40. Brazil Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2017-2028

Figure 41. Argentina Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2017-2028

Figure 42. By Country - Middle East & Africa Shortwave Infrared (SWIR) Camera Revenue Market Share, 2017-2028

Figure 43. By Country - Middle East & Africa Shortwave Infrared (SWIR) Camera Sales Market Share, 2017-2028

Figure 44. Turkey Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2017-2028

Figure 45. Israel Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2017-2028

Figure 46. Saudi Arabia Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2017-2028

Figure 47. UAE Shortwave Infrared (SWIR) Camera Revenue, (US\$, Mn), 2017-2028

Figure 48. Global Shortwave Infrared (SWIR) Camera Production Capacity (Units), 2017-2028

Figure 49. The Percentage of Production Shortwave Infrared (SWIR) Camera by Region, 2021 VS 2028

Figure 50. Shortwave Infrared (SWIR) Camera Industry Value Chain

Figure 51. Marketing Channels

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