

Global Shortwave Infrared (SWIR) Camera Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Shortwave Infrared (SWIR) Camera market size was valued at USD 149.7 million in 2023 and is forecast to a readjusted size of USD 260.4 million by 2030 with a CAGR of 8.2% 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.

The report segments the SWIR Cameras market on the basis of scanning type, technology, vertical, and geography. The said market is expected to be led by uncooled SWIR Cameras during the forecast period. The high popularity of these cameras can be attributed to their low cost in comparison with cooled SWIR Cameras.

The industrial vertical accounted for the largest share of the overall SWIR Cameras market. The high adoption of SWIR Cameras in this vertical for various applications, including semiconductor inspection, thermography, and solar cell inspection, has led to the dominance of the industrial vertical in the SWIR Cameras market.

The market for line scan SWIR Cameras is expected to witness significant growth during the forecast period. The major applications of line scan cameras are in the industrial vertical. These cameras are well suited for applications requiring imaging of fast-moving objects, and their cost is lower than that of area scan cameras, thereby leading to their wide adoption in the industrial vertical.

North America held the largest size of the SWIR Cameras market in 2016 and is expected to witness significant growth during the forecast period. Military and defense, industrial, and commercial are the major verticals that account for a significant share of the SWIR Cameras market in North America. Besides, this region is witnessing increasing demand for these cameras, especially cooled SWIR Cameras, from the scientific research vertical.

The Global Info Research report includes an overview of the development of the Shortwave Infrared (SWIR) Camera industry chain, the market status of Industrial (SWIR Area Cameras, SWIR Linear Cameras), Military & Defense (SWIR Area Cameras, SWIR Linear Cameras), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Shortwave Infrared (SWIR) Camera.

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

Key Features:

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

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Units), revenue generated, and market share of different by Type (e.g., SWIR Area Cameras, SWIR Linear Cameras).

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

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

Market Projections: Report covers the gathered data and analysis to make future

projections and forecasts for the Shortwave Infrared (SWIR) Camera market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Shortwave Infrared (SWIR) Camera:

Company Analysis: Report covers individual Shortwave Infrared (SWIR) Camera manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Shortwave Infrared (SWIR) Camera. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Industrial, Military & Defense).

Technology Analysis: Report covers specific technologies relevant to Shortwave Infrared (SWIR) Camera. It assesses the current state, advancements, and potential future developments in Shortwave Infrared (SWIR) Camera areas.

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

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

Market Segmentation

Shortwave Infrared (SWIR) Camera market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

SWIR Area Cameras

SWIR Linear Cameras

Market segment by Application

Industrial

Military & Defense

Scientific Research

Others

Major players covered

FLIR Systems

Hamamatsu Photonics

Sensors Unlimited

Xenics

Princeton Instruments

Allied Vision Technologies

IRCameras

Fluxdata

InView Technology

New Imaging Technologies

Photonic Science

Infiniti Electro-Optics

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 Shortwave Infrared (SWIR) Camera product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Shortwave Infrared (SWIR) Camera, with price, sales, revenue and global market share of Shortwave Infrared (SWIR) Camera from 2019 to 2024.

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

Chapter 4, the Shortwave Infrared (SWIR) Camera breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017

to 2023.and Shortwave Infrared (SWIR) Camera market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Shortwave Infrared (SWIR) Camera.

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

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