

Global Shortwave Infrared (SWIR) 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) market size was valued at USD 700.7 million in 2023 and is forecast to a readjusted size of USD 1181.6 million by 2030 with a CAGR of 7.8% during review period.

Shortwave infrared (SWIR) light is typically defined as light in the 0.9 – 1.7 μ m wavelength range, but can also be classified from 0.7 – 2.5 μ m. Since silicon sensors have an upper limit of approximately 1.0 μ m, SWIR imaging requires unique optical and electronic components capable of performing in the specific SWIR range. Shortwave infrared (SWIR) defines a specific wavelength range over which optical and electronic components are designed and coated. SWIR imaging offers a number of advantages compared to visible when used for inspection, sorting, surveillance, quality control, and host of other applications.

North America held the largest size of the SWIR market in 2017 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 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) industry chain, the market status of Scientific Research (Area Scan, Line Scan), Commercial (Area Scan, Line Scan), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Shortwave Infrared (SWIR).

Regionally, the report analyzes the Shortwave Infrared (SWIR) 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) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Shortwave Infrared (SWIR) 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) 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 (K Units), revenue generated, and market share of different by Type (e.g., Area Scan, Line Scan).

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) market.

Regional Analysis: The report involves examining the Shortwave Infrared (SWIR) 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) 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):

Company Analysis: Report covers individual Shortwave Infrared (SWIR) 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) This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Scientific Research, Commercial).

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

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Shortwave Infrared (SWIR) 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) 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

Area Scan

Line Scan

Market segment by Application

Scientific Research

Commercial

Industrial

Medical

Military & Defense

Others

Major players covered

Sensors Unlimited

Flir Systems

Xenics

New Imaging Technologies

Allied Vision Technologies

Raptor Photonics

Sofradir Group

Princeton Instruments

Photon Etc

Hamamatsu Photonics

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) product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Shortwave Infrared (SWIR) 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) 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).

Chapter 14 and 15, to describe Shortwave Infrared (SWIR) sales channel, distributors,

customers, research findings and conclusion.

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