

# Global Short Wave Infrared (SWIR) Market Growth 2025-2031

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## Abstracts

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The global Short Wave Infrared (SWIR) market size is predicted to grow from US\$ 245 million in 2025 to US\$ 431 million in 2031; it is expected to grow at a CAGR of 9.9% from 2025 to 2031.

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%.

LP Information, Inc. (LPI) ' newest research report, the "Short Wave Infrared (SWIR) Industry Forecast" looks at past sales and reviews total world Short Wave Infrared (SWIR) sales in 2024, providing a comprehensive analysis by region and market sector of projected Short Wave Infrared (SWIR) sales for 2025 through 2031. With Short Wave Infrared (SWIR) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Short Wave Infrared (SWIR) industry.

This Insight Report provides a comprehensive analysis of the global Short Wave Infrared (SWIR) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Short Wave Infrared (SWIR) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position

in an accelerating global Short Wave Infrared (SWIR) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Short Wave Infrared (SWIR) and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Short Wave Infrared (SWIR).

This report presents a comprehensive overview, market shares, and growth opportunities of Short Wave Infrared (SWIR) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

SWIR Area Scan Camera

SWIR Line Scan Camera

Segmentation by Application:

Industrial Application

Military and Defense

Scientific Research

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

## GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

## Key Questions Addressed in this Report

What is the 10-year outlook for the global Short Wave Infrared (SWIR) market?

What factors are driving Short Wave Infrared (SWIR) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Short Wave Infrared (SWIR) market opportunities vary by end market size?

How does Short Wave Infrared (SWIR) break out by Type, by Application?

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