

Global Short Wave Infrared (SWIR) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Short Wave Infrared (SWIR) market size is expected to reach \$ 477 million by 2032, rising at a market growth of 9.3% CAGR during the forecast period (2026-2032).

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 studies the global Short Wave Infrared (SWIR) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Short Wave Infrared (SWIR) and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Short Wave Infrared (SWIR) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Short Wave Infrared (SWIR) total production and demand, 2021-2032, (Units)
Global Short Wave Infrared (SWIR) total production value, 2021-2032, (USD Million)
Global Short Wave Infrared (SWIR) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global Short Wave Infrared (SWIR) consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Short Wave Infrared (SWIR) domestic production, consumption, key domestic manufacturers and share

Global Short Wave Infrared (SWIR) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Short Wave Infrared (SWIR) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Short Wave Infrared (SWIR) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Short Wave Infrared (SWIR) market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Short Wave Infrared (SWIR) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Short Wave Infrared (SWIR) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Short Wave Infrared (SWIR) Market, Segmentation by Type:

SWIR Area Scan Camera

SWIR Line Scan Camera

Global Short Wave Infrared (SWIR) Market, Segmentation by Application:

Industrial Application

Military and Defense

Scientific Research

Others

Companies Profiled:

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 Answered:

1. How big is the global Short Wave Infrared (SWIR) market?
2. What is the demand of the global Short Wave Infrared (SWIR) market?
3. What is the year over year growth of the global Short Wave Infrared (SWIR) market?
4. What is the production and production value of the global Short Wave Infrared (SWIR) market?
5. Who are the key producers in the global Short Wave Infrared (SWIR) market?
6. What are the growth factors driving the market demand?

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