

Global SWIR Cameras Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global SWIR Cameras market size is expected to reach \$ 157 million by 2032, rising at a market growth of 6.9% CAGR during the forecast period (2026-2032).

Short-wave Infrared imaging (SWIR), is an advanced technique, used for producing images based on radiation in the region of the electromagnetic spectrum invisible to the naked eye. SWIR cameras are used for a variety of applications in different aspects of the industry and research, ranging from inspection, quality control, identification, detection, surveillance, and more.

System integrators are increasingly developing new inspection systems As they come down in price, system integrators are increasingly developing new inspection systems based on shortwave infrared (SWIR) line scan cameras. SWIR cameras are not new, but advances in sensor technology recently have made them more practical in applications including silicon inspection, laser beam profiling, hyperspectral imaging, chemical and plastics sensing, and medical imaging. The SWIR spectrum -- wavelengths between 900 and 2500 nm -- detects features not immediately obvious in visible light. It is especially effective in food inspection involving moisture detection, for example, separating frozen fruit from plastic pieces that may be mixed in, or in identifying the fat content of meat. To a frame grabber, the data coming from the camera, be it SWIR, MWIR, Visible etc., is the same. We have always been able to process this data. However in recent times, the increase in data output by these cameras has required the use of a frame grabber. BitFlow has partnered with several companies manufacturing these cameras ensuring these customers have access to the best frame grabbers in the market.

This report studies the global SWIR Cameras production, demand, key manufacturers,

and key regions.

This report is a detailed and comprehensive analysis of the world market for SWIR Cameras 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 SWIR Cameras that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global SWIR Cameras total production and demand, 2021-2032, (Units)

Global SWIR Cameras total production value, 2021-2032, (USD Million)

Global SWIR Cameras production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global SWIR Cameras consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: SWIR Cameras domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global SWIR Cameras 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 GHOPTO, Teledyne Technologies, Basler AG, Hamamatsu Photonics, Allied Vision Technologies, Sensors Unlimited, Xenics, Daheng Imaging, Lusterinc, New Imaging Technologies, 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 SWIR Cameras market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (Units) and average price (K 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 SWIR Cameras Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global SWIR Cameras Market, Segmentation by Type:

SWIR Area Cameras

SWIR Linear Cameras

Global SWIR Cameras Market, Segmentation by Application:

Industrial Applications

Military and Defense

Scientific Research

Others

Companies Profiled:

GHOPTO

Teledyne Technologies

Basler AG

Hamamatsu Photonics

Allied Vision Technologies

Sensors Unlimited

Xenics

Daheng Imaging

Lusterinc

New Imaging Technologies

Huaruicom

Raptor Photonics

IRCameras

Key Questions Answered:

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

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