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Global NIR-SWIR Imaging Cameras Market Growth 2025-2031

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Abstracts

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The global NIR-SWIR Imaging Cameras market size is predicted to grow from US$ 205 million in 2025 to US$ 307 million in 2031; it is expected to grow at a CAGR of 7.0% from 2025 to 2031.

NIR-SWIR imaging cameras cover the wavelength range from 900nm to 1700nm. SWIR is similar to visible light in that photons are reflected or absorbed by objects, providing the strong contrast needed for higher resolution imaging. A large number of applications that are difficult or impossible to perform using visible light have achieved great results using short-wave infrared (SWIR) imaging. Shortwave Infrared Imaging (SWIR) is an advanced technology used to generate images from radiation in regions of the electromagnetic spectrum that are invisible to the naked eye. At the same time, short-wave infrared imaging cameras can image through glass.

SWIR imaging with InGaAs-based sensors is ideal for non-destructive inspection of objects and their structures, coatings, and other features. SWIR images are starting to gain more and more importance in industrial machine vision for quality assessment. Commonly referred to as near-infrared (NIR) imagers, SWIR imagers can see objects and events that visual and thermal cameras cannot. They are smaller, lighter and cost much less than all other thermal imaging cameras. SWIR imaging cameras open up a wide range of possibilities for computer vision applications, as they can identify unseen component defects as well as desired properties. For example, during the bottle production phase, SWIR InGaAs cameras enable internal and external inspection of glass bottles. With the ability to thermally image hot objects between 250°C and 800°C, these cameras can monitor the temperature uniformity and cooling rate of the

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glass. As a result, manufacturers are able to continuously track output to optimize yield and efficiency. Growing demand for SWIR cameras for security and surveillance activities in military and defense vertical is one of the major factors driving the growth of this market. These cameras are used for research purposes in numerous fields such as semiconductor production, nanotechnology and life sciences as well as research and low energy technology. Furthermore, the deployment of SWIR cameras for defense applications has had a significant impact on the industry. Growing demand for these cameras in control and inspection applications is also expected to drive the market. They can display higher-resolution images through pictures and exhibit excellent performance even in clouds, rain and other harsh atmospheric environments.

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

This Insight Report provides a comprehensive analysis of the global NIR-SWIR Imaging Cameras 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 NIR-SWIR Imaging Cameras portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global NIR-SWIR Imaging Cameras market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for NIR-SWIR Imaging Cameras 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 NIR-SWIR Imaging Cameras.

This report presents a comprehensive overview, market shares, and growth opportunities of NIR-SWIR Imaging Cameras market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

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Area Scan Camera

Line Scan Camera

Segmentation by Application:

Industrial Applications

Military

Aerospace

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

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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.

Xenics

FLIR Systems

Hamamatsu Photonics

Sensors Unlimited

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Teledyne Technologies

Allied Vision Technologies

Raptor Photonics

Chromasens

IRCameras

New Imaging Technologies

First Light

JAI

Infiniti Electro-Optics

SWIR Vision Systems

Photonic Science

Pembroke Instruments

Guohui Optoelectronic

Key Questions Addressed in this Report

What is the 10-year outlook for the global NIR-SWIR Imaging Cameras market?

What factors are driving NIR-SWIR Imaging Cameras market growth, globally and by region?

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

How do NIR-SWIR Imaging Cameras market opportunities vary by end market size?

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How does NIR-SWIR Imaging Cameras break out by Type, by Application?

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