

Global Industrial Camera for Machine Vision Market Growth 2025-2031

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Abstracts

The global Industrial Camera for Machine Vision market size is predicted to grow from US\$ 2372 million in 2025 to US\$ 3827 million in 2031; it is expected to grow at a CAGR of 8.3% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

An industrial camera for machine vision is a high-performance camera specifically designed for industrial automation and intelligent inspection. By utilizing image acquisition and processing technologies, it enables high-precision and high-speed visual inspection. Compared to consumer-grade cameras, industrial cameras generally offer higher resolution, frame rates, and dynamic range, along with enhanced environmental adaptability, such as resistance to vibration, dustproof and waterproof capabilities, and long-term stable operation. Key applications include industrial automation, product quality inspection, robotic vision guidance, precision measurement, and medical imaging analysis.

With the global manufacturing industry advancing toward intelligence and automation, the market demand for industrial cameras for machine vision continues to rise. Industries such as electronics manufacturing, semiconductors, automotive, and food packaging increasingly rely on high-precision and high-efficiency visual inspection systems as a critical part of quality control. Additionally, advancements in artificial intelligence (AI) and deep learning have further enhanced machine vision applications in defect detection, object recognition, and dimensional measurement, making them more intelligent and efficient. Over the next few years, the global market for industrial

cameras for machine vision is expected to grow steadily, with significant demand increases in major manufacturing powerhouses such as China, Germany, Japan, and the United States. As high-resolution, high-speed imaging, and intelligent analysis capabilities continue to improve, industrial cameras will further drive the transformation of manufacturing into smart manufacturing.

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

This Insight Report provides a comprehensive analysis of the global Industrial Camera for Machine Vision 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 Industrial Camera for Machine Vision portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Industrial Camera for Machine Vision market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Industrial Camera for Machine Vision 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 Industrial Camera for Machine Vision.

This report presents a comprehensive overview, market shares, and growth opportunities of Industrial Camera for Machine Vision market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Area Scan Cameras

Line Scan Cameras

Segmentation by Application:

Automotive

Electronics & Semiconductor

Pharmaceutical & Medical

Food & Beverage

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.

Keyence

Teledyne

Cognex Corporation

Basler AG

TKH Group

Hikvision

Dahua

IDS

Toshiba Teli

JAI

Baumer Holding AG

Omron

Daheng

Sony

Hefei I-TEK OptoElectronics

CIS Corporation

Ximea

Lucid

Key Questions Addressed in this Report

What is the 10-year outlook for the global Industrial Camera for Machine Vision market?

What factors are driving Industrial Camera for Machine Vision market growth, globally and by region?

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

How do Industrial Camera for Machine Vision market opportunities vary by end market size?

How does Industrial Camera for Machine Vision break out by Type, by Application?

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