

Global Industrial Camera for Machine Vision Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Industrial Camera for Machine Vision market size was valued at US\$ 2327 million in 2024 and is forecast to a readjusted size of USD 3918 million by 2031 with a CAGR of 7.8% during review period.

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.

This report is a detailed and comprehensive analysis for global Industrial Camera for Machine Vision market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Industrial Camera for Machine Vision market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Industrial Camera for Machine Vision market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Industrial Camera for Machine Vision market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Industrial Camera for Machine Vision market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Industrial Camera for Machine Vision
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Industrial Camera for Machine Vision market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Keyence, Teledyne, Cognex

Corporation, Basler AG, TKH Group, Hikvision, Dahua, IDS, Toshiba Teli, JAI, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Industrial Camera for Machine Vision market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Area Scan Cameras

Line Scan Cameras

Market segment by Application

Automotive

Electronics & Semiconductor

Pharmaceutical & Medical

Food & Beverage

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Industrial Camera for Machine Vision product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Industrial Camera for Machine Vision, with price, sales quantity, revenue, and global market share of Industrial Camera for Machine Vision from 2020 to 2025.

Chapter 3, the Industrial Camera for Machine Vision competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Industrial Camera for Machine Vision breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Industrial Camera for Machine Vision market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Industrial Camera for Machine Vision.

Chapter 14 and 15, to describe Industrial Camera for Machine Vision sales channel, distributors, customers, research findings and conclusion.

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