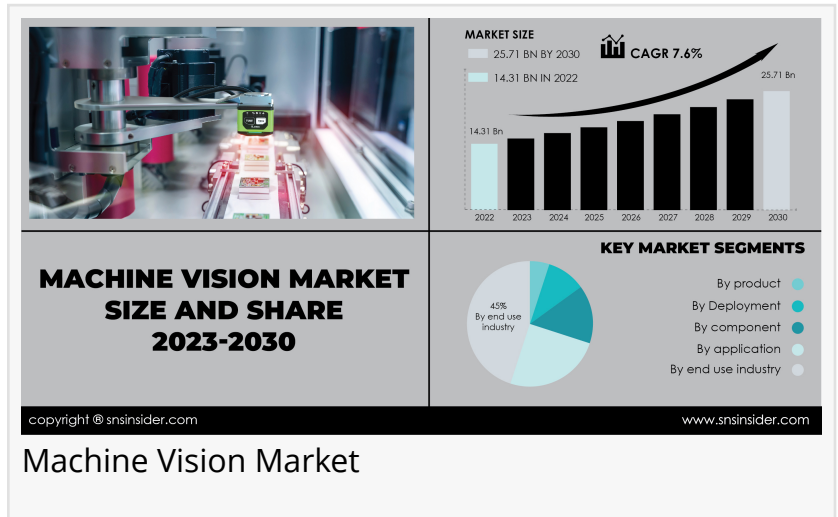


# Machine Vision Market to Surpass USD 25.71 Billion by 2030 due to Increasing Automation Across Industries

*Machine Vision Market Size, Share & Segmentation By Component, By Product, By Deployment, By Application, By End Use Industry And Global Forecast 2023-2030*

AUSTIN, TEXAS, UNITED STATES,  
 January 11, 2024 /EINPresswire.com/ --  
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Machine Vision Market

Machine vision, a rapidly evolving field, is revolutionizing industries by

integrating advanced technologies to enable machines to interpret and comprehend visual information. It encompasses a broad spectrum of applications, including image recognition, pattern detection, and three-dimensional imaging, providing unprecedented precision and efficiency across diverse sectors. The scope of the [Machine Vision Market](#) extends from

manufacturing and healthcare to automotive and security, where its capabilities enhance productivity, quality control, and decision-making processes.



The Global Machine Vision Market Size was valued at USD 14.31 billion in 2022, and is expected to reach USD 25.71 billion and grow at a CAGR of 7.6% by 2030”  
*Research by SNS Insider*

This dynamic technology involves the use of cameras, sensors, and artificial intelligence algorithms to analyze and interpret visual data, mimicking human vision capabilities. The machine vision market is poised for substantial growth, driven by increasing demand for automation, rising quality standards, and advancements in

artificial intelligence. As industries continue to embrace smart technologies, machine vision's potential for innovation and optimization is boundless, making it a pivotal component in the era of Industry 4.0.

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- Allied Vision Technologies
- Cognex Corporation
- LMI Technologies
- National Instruments Corporation
- Sick
- Basler
- Keyence Corporation
- Microscan Systems
- OMRON Corporation
- Tordivel.

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- Increased demand for ASICs.
- Rising need for robotic systems with vision guidance.
- Increasing demand for automation and quality control.

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- The deployment of vision-guided industrial robots and other automation technologies, particularly in China, is being driven by rising salaries.
- Government programmes to advance technology connected to AI.
- Increasing the production of electric and hybrid cars.

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The machine vision market is propelled by several growth drivers, including the relentless pursuit of automation across industries, the need for stringent quality control measures, and the rising demand for non-destructive testing methodologies. As industries seek to enhance efficiency and reduce operational costs, machine vision systems offer a reliable solution by ensuring accuracy, consistency, and speed in various processes. Additionally, advancements in sensor technologies and the integration of machine learning algorithms contribute to the market's upward trajectory.

However, the market is not without its challenges. Restraints such as high initial costs, complexity in system integration, and the need for skilled professionals may impede widespread adoption. Nevertheless, these challenges also present opportunities for innovation and growth. The advent of compact, cost-effective solutions, coupled with continuous research and development, can mitigate these challenges and open new avenues for market expansion.

Strategic partnerships, technological collaborations, and the exploration of untapped industrial sectors remain crucial in navigating the complex landscape of the machine vision market.

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In the wake of the ongoing economic recession, the machine vision market is navigating a complex landscape with both positive and negative ramifications. On the downside, the economic downturn has led to reduced capital expenditure across industries, affecting the adoption of advanced technologies like machine vision systems. Companies are cautious about their spending, leading to delayed or scaled-down projects, impacting the overall growth of the market. However, amidst the challenges, there is a silver lining. As industries strive to optimize operations and cut costs in the face of economic uncertainties, the demand for automation and efficiency-boosting technologies, such as machine vision, has witnessed an upswing.

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The Russia-Ukraine war has sent ripples across global markets, and the machine vision sector is no exception to its influence. The conflict has introduced a level of geopolitical instability, disrupting supply chains and causing economic uncertainties. This has a direct impact on the machine vision market as manufacturers and end-users face challenges related to sourcing components and maintaining operational continuity. The war-induced disruptions may lead to delays in project timelines and increased production costs, negatively affecting the growth trajectory of the machine vision industry. On the positive side, however, geopolitical tensions often serve as catalysts for technological advancements, with industries seeking innovative solutions to mitigate risks.

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A comprehensive regional analysis of the machine vision market reveals a dynamic landscape with varying trends and opportunities across different geographies. In North America, the market is characterized by a strong emphasis on technological innovation and early adoption of machine vision solutions across industries such as manufacturing, healthcare, and automotive. The region's mature industrial sector and continuous research and development activities contribute to the robust growth of machine vision applications. In Europe, a similar trend is observed, with a focus on quality control and automation in manufacturing processes driving the market forward. Asia-Pacific, on the other hand, stands out as a burgeoning market with rapid industrialization, increasing investments in automation, and a growing manufacturing sector.

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- Hardware
- Software
- Service

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- Smart Cameras
- PC- based

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- Robotic cell
- General machine vision system

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- Quality Assurance & Inspection
- Measurement
- Predictive maintenance
- Positioning & Guidance
- Identification

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- Automotive
- Food & Packaging
- Consumer Electronics
- Metals
- Pharmaceuticals
- Printing
- Solar Panel Manufacturing
- Electronics and Semiconductor
- Glass
- Wood and Paper
- Rubber & Plastics
- Machinery/Equipment
- Textile

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- North America
- Europe
- Asia-Pacific
- The Middle East & Africa
- Latin America

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In the latest report by SNS Insider on the machine vision market, a comprehensive analysis unfolds, highlighting key trends and developments shaping the industry. The report delves into the burgeoning applications of machine vision across various sectors, emphasizing its pivotal role in revolutionizing manufacturing processes, healthcare diagnostics, and autonomous systems. With a keen focus on technological advancements, the report explores the integration of artificial intelligence and deep learning algorithms in machine vision systems, enhancing their capabilities for image recognition and analysis.

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## 1.1 Market Definition

## 1.2 Scope

## 1.3 Research Assumptions

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## 3.1 Drivers

## 3.2 Restraints

## 3.3 Opportunities

## 3.4 Challenges

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## 4.1 COVID-19 Impact Analysis

## 4.2 Impact of Ukraine- Russia war

## 4.3 Impact of ongoing Recession

### 4.3.1 Introduction

### 4.3.2 Impact on major economies

4.3.2.1 US

4.3.2.2 Canada

4.3.2.3 Germany

4.3.2.4 France

4.3.2.5 United Kingdom

4.3.2.6 China

4.3.2.7 Japan

4.3.2.8 South Korea

4.3.2.9 Rest of the World

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8.1 Introduction

8.2 Hardware

8.3 Software

8.4 Service

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9.1 Introduction

9.2 Smart Cameras

9.3 PC- based

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14.1 Tordivel

14.1.1 Financial

14.1.2 Products/ Services Offered

14.1.3 SWOT Analysis

14.1.4 The SNS view

14.2 Allied Vision Technologies

14.3 Cognex Corporation

14.4 LMI Technologies

14.5 National Instruments Corporation

14.6 Sick

14.7 Basler

14.8 Keyence Corporation

14.9 Microscan Systems

14.10 OMRON Corporation

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[Robotic Vision Market](#)

[Machine Control System Market](#)

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