

Machine Vision Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

<https://marketpublishers.com/r/M1031C03D07EN.html>

Date: January 2023

Pages: 110

Price: US\$ 2,499.00 (Single User License)

ID: M1031C03D07EN

Abstracts

The global machine vision market size reached US\$ 12.1 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 19.7 Billion by 2028, exhibiting a growth rate (CAGR) of 9.3% during 2023-2028.

Machine vision, also known as vision system or industrial vision, is a technology used for observing all types of machinery processes. It usually consists of various cameras which are installed over the machines depending upon the requirement so that the entire process can undergo a proper vigilance. These cameras are fixed to perform the task of capturing and interpreting along with giving a signal as per the requirements. Machine vision technology works by the precise coordination of software and hardware. Machine vision is currently providing numerous benefits to organizations such as improving quality, increasing productivity, lowering production costs, reducing floor space, increasing production flexibility, lowering capital equipment costs, etc.

Whereas human vision is ideal for qualitative interpretation of a complex, unstructured scene, machine vision stands out at quantitative measurement of a structured scene catalyzed by its speed, accuracy, and repeatability. For instance, during a production process, a machine vision system has the capability to inspect hundreds, or even thousands, of parts per minute. A machine vision system built around the right camera resolution and optics can effortlessly inspect object details that may otherwise be too small to be viewed by the human eye. In addition, in removing physical contact between a test system and the parts that are being tested, machine vision averts part damage and reduces the maintenance time and costs linked with the wear and tear on mechanical components. Moreover, machine vision provides additional safety and operational advantages by reducing manual involvement in the production process. Nevertheless, machine vision also helps in preventing human contamination of clean

rooms and protects human workers from environments that could be hazardous.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global machine vision market report, along with forecasts at the global and regional level from 2023-2028. Our report has categorized the market based on product, component, application, and industry.

Breakup by Product:

Vision Systems

Cameras

Others

Based on the product, the market has been segmented as vision systems, cameras and others.

Breakup by Component:

Hardware

Software

Based on the component, the market has been segmented as hardware and software.

Breakup by Application:

Positioning

Identification

Verification

Measurement

Flaw Detection

Others

Based on the application, the market has been segmented as positioning, identification, verification, measurement, flaw detection and others.

Breakup by Industry:

Electronics and Semiconductor
Automotive
Medical and Pharmaceutical
Food, Packaging and Printing
Security and Surveillance
Intelligent Traffic System
Others

Based on the industry, the market has been segmented as electronics and semiconductor; automotive; medical and pharmaceutical; food; packaging and printing; security and surveillance; intelligent traffic system; and others.

Regional Insights:

Asia Pacific
Europe
North America
Middle East and Africa
Latin America

Region-wise, the market has been segmented into Asia Pacific, Europe, North America, Middle East and Africa, and Latin America.

Competitive Landscape:

The report has also analyzed the competitive landscape of the market with some of the key players being Cognex Corporation, Basler AG, Omron Corporation, National Instruments Corporation, Keyence Corporation, Sony Corporation, Teledyne Technologies, Inc., Texas Instruments, Inc, Allied Vision Technologies GmbH, Intel Corporation, Baumer Optronic GmbH and Jai A/S.

This report provides a deep insight into the global machine vision market covering all its essential aspects. This ranges from macro overview of the market to micro details of the industry performance, recent trends, key market drivers and challenges, SWOT analysis, Porter's five forces analysis, value chain analysis, etc. This report is a must-read for entrepreneurs, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the machine vision market in any manner.

Key Questions Answered in This Report

1. What was the size of the global machine vision market in 2022?
2. What is the expected growth rate of the global machine vision market during 2023-2028?
3. What are the key factors driving the global machine vision market?
4. What has been the impact of COVID-19 on the global machine vision market?
5. What is the breakup of the global machine vision market based on the product?
6. What is the breakup of the global machine vision market based on the component?
7. What is the breakup of the global machine vision market based on the application?
8. What is the breakup of the global machine vision market based on the industry?
9. What are the key regions in the global machine vision market?
10. Who are the key players/companies in the global machine vision market?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL MACHINE VISION MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Breakup by Product
- 5.5 Market Breakup by Component
- 5.6 Market Breakup by Application
- 5.7 Market Breakup by Industry
- 5.8 Market Breakup by Region
- 5.9 Market Forecast
- 5.10 SWOT Analysis
 - 5.10.1 Overview
 - 5.10.2 Strengths
 - 5.10.3 Weaknesses
 - 5.10.4 Opportunities

- 5.10.5 Threats
- 5.11 Value Chain Analysis
- 5.12 Porters Five Forces Analysis
 - 5.12.1 Overview
 - 5.12.2 Bargaining Power of Buyers
 - 5.12.3 Bargaining Power of Suppliers
 - 5.12.4 Degree of Competition
 - 5.12.5 Threat of New Entrants
 - 5.12.6 Threat of Substitutes
- 5.13 Price Analysis

6 MARKET BREAKUP BY PRODUCT

- 6.1 Vision Systems
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Cameras
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Others
 - 6.3.1 Market Trends
 - 6.3.2 Market Forecast

7 MARKET BREAKUP BY COMPONENT

- 7.1 Hardware
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Software
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast

8 MARKET BREAKUP BY APPLICATION

- 8.1 Positioning
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Identification
 - 8.2.1 Market Trends

- 8.2.2 Market Forecast
- 8.3 Verification
 - 8.3.1 Market Trends
 - 8.3.2 Market Forecast
- 8.4 Measurement
 - 8.4.1 Market Trends
 - 8.4.2 Market Forecast
- 8.5 Flaw Detection
 - 8.5.1 Market Trends
 - 8.5.2 Market Forecast
- 8.6 Others
 - 8.6.1 Market Trends
 - 8.6.2 Market Forecast

9 MARKET BREAKUP BY INDUSTRY

- 9.1 Electronics and Semiconductor
 - 9.1.1 Market Trends
 - 9.1.2 Market Forecast
- 9.2 Automotive
 - 9.2.1 Market Trends
 - 9.2.2 Market Forecast
- 9.3 Medical and Pharmaceutical
 - 9.3.1 Market Trends
 - 9.3.2 Market Forecast
- 9.4 Food, Packaging and Printing
 - 9.4.1 Market Trends
 - 9.4.2 Market Forecast
- 9.5 Security and Surveillance
 - 9.5.1 Market Trends
 - 9.5.2 Market Forecast
- 9.6 Intelligent Traffic System
 - 9.6.1 Market Trends
 - 9.6.2 Market Forecast
- 9.7 Others
 - 9.7.1 Market Trends
 - 9.7.2 Market Forecast

10 MARKET BREAKUP BY REGION

10.1 Asia Pacific

10.1.1 Market Trends

10.1.2 Market Forecast

10.2 Europe

10.2.1 Market Trends

10.2.2 Market Forecast

10.3 North America

10.3.1 Market Trends

10.3.2 Market Forecast

10.4 Middle East and Africa

10.4.1 Market Trends

10.4.2 Market Forecast

10.5 Latin America

10.5.1 Market Trends

10.5.2 Market Forecast

11 COMPETITIVE LANDSCAPE

11.1 Market Structure

11.2 Key Players

11.3 Profiles of Key Players

11.3.1 Cognex Corporation

11.3.2 Basler AG

11.3.3 Omron Corporation

11.3.4 National Instruments Corporation

11.3.5 Keyence Corporation

11.3.6 Sony Corporation

11.3.7 Teledyne Technologies, Inc.

11.3.8 Texas Instruments, Inc

11.3.9 Allied Vision Technologies GmbH

11.3.10 Intel Corporation

11.3.11 Baumer Optronic GmbH

11.3.12 Jai A/S

List Of Tables

LIST OF TABLES

Table 1: Global: Machine Vision Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Machine Vision Market Forecast: Breakup by Product (in Million US\$), 2023-2028

Table 3: Global: Machine Vision Market Forecast: Breakup by Component (in Million US\$), 2023-2028

Table 4: Global: Machine Vision Market Forecast: Breakup by Application (in Million US\$), 2023-2028

Table 5: Global: Machine Vision Market Forecast: Breakup by Industry (in Million US\$), 2023-2028

Table 6: Global: Machine Vision Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 7: Global: Machine Vision Market: Competitive Structure

Table 8: Global: Machine Vision Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Machine Vision Market: Major Drivers and Challenges

Figure 2: Global: Machine Vision Market: Sales Value (in Billion US\$), 2017-2022

Figure 3: Global: Machine Vision Market: Breakup by Product (in %), 2022

Figure 4: Global: Machine Vision Market: Breakup by Component (in %), 2022

Figure 5: Global: Machine Vision Market: Breakup by Industry (in %), 2022

Figure 6: Global: Machine Vision Market: Breakup by Application (in %), 2022

Figure 7: Global: Machine Vision Market: Breakup by Region (in %), 2022

Figure 8: Global: Machine Vision Market Forecast: Sales Value (in Billion US\$), 2023-2028

Figure 9: Global: Machine Vision Industry: SWOT Analysis

Figure 10: Global: Machine Vision Industry: Value Chain Analysis

Figure 11: Global: Machine Vision Industry: Porter's Five Forces Analysis

Figure 12: Global: Machine Vision (Vison Systems) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 13: Global: Machine Vision (Vison Systems) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 14: Global: Machine Vision (Cameras) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 15: Global: Machine Vision (Cameras) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 16: Global: Machine Vision (Other Products) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 17: Global: Machine Vision (Other Products) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 18: Global: Machine Vision (Hardware) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 19: Global: Machine Vision (Hardware) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 20: Global: Machine Vision (Software) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 21: Global: Machine Vision (Software) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 22: Global: Machine Vision (Positioning) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 23: Global: Machine Vision (Positioning) Market Forecast: Sales Value (in Million US\$), 2023-2028

US\$), 2023-2028

Figure 24: Global: Machine Vision (Identification) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 25: Global: Machine Vision (Identification) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 26: Global: Machine Vision (Verification) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 27: Global: Machine Vision (Verification) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 28: Global: Machine Vision (Measurement) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 29: Global: Machine Vision (Measurement) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 30: Global: Machine Vision (Flaw Detection) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 31: Global: Machine Vision (Flaw Detection) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 32: Global: Machine Vision (Other Applications) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 33: Global: Machine Vision (Other Applications) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 34: Global: Machine Vision (Electronics and Semiconductor) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 35: Global: Machine Vision (Electronics and Semiconductor) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 36: Global: Machine Vision (Automotive) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 37: Global: Machine Vision (Automotive) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 38: Global: Machine Vision (Medical and Pharmaceutical) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 39: Global: Machine Vision (Medical and Pharmaceutical) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 40: Global: Machine Vision (Food, Packaging and Printing) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 41: Global: Machine Vision (Food, Packaging and Printing) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 42: Global: Machine Vision (Security and Surveillance) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 43: Global: Machine Vision (Security and Surveillance) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 44: Global: Machine Vision (Intelligent Traffic System) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 45: Global: Machine Vision (Intelligent Traffic System) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 46: Global: Machine Vision (Other Industries) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 47: Global: Machine Vision (Other Industries) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 48: Asia Pacific: Machine Vision Market: Sales Value (in Million US\$), 2017 & 2022

Figure 49: Asia Pacific: Machine Vision Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 50: Europe: Machine Vision Market: Sales Value (in Million US\$), 2017 & 2022

Figure 51: Europe: Machine Vision Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 52: North America: Machine Vision Market: Sales Value (in Million US\$), 2017 & 2022

Figure 53: North America: Machine Vision Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 54: Middle East and Africa: Machine Vision Market: Sales Value (in Million US\$), 2017 & 2022

Figure 55: Middle East and Africa: Machine Vision Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 56: Latin America: Machine Vision Market: Sales Value (in Million US\$), 2017 & 2022

Figure 57: Latin America: Machine Vision Market Forecast: Sales Value (in Million US\$), 2023-2028

I would like to order

Product name: Machine Vision Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Product link: <https://marketpublishers.com/r/M1031C03D07EN.html>

Price: US\$ 2,499.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/M1031C03D07EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

