

Global 2D and 3D Machine Vision Systems Market Growth 2025-2031

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Abstracts

The global 2D and 3D Machine Vision Systems market size is predicted to grow from US\$ million in 2025 to US\$ million in 2031; it is expected to grow at a CAGR of % 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.

Machine vision (MV) is the technology and methods used to provide imaging-based automatic inspection and analysis for such applications as automatic inspection, process control, and robot guidance, usually in industry. Machine vision refers to many technologies, software and hardware products, integrated systems, actions, methods, and expertise. 2D Machine Vision Technology provides results based on the characteristics of contrast in grayscale or color images. 2D is suitable for missing / presence detection, discrete object analysis, pattern alignment, bar code and optical character recognition, OCR, and various 2D geometric analysis based on edge detection. Used for fitting lines, ARCS, circles and their relative distance, angle, intersection points, etc. 3D machine vision is most commonly used for the precise three-dimensional inspection and measurement of complex 3D free formed surfaces.

United States market for 2D and 3D Machine Vision Systems is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for 2D and 3D Machine Vision Systems is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for 2D and 3D Machine Vision Systems is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key 2D and 3D Machine Vision Systems players cover Cognex, Teledyne Technologies, Keyence, National Instruments, Texas Instruments, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the "2D and 3D Machine Vision Systems Industry Forecast" looks at past sales and reviews total world 2D and 3D Machine Vision Systems sales in 2024, providing a comprehensive analysis by region and market sector of projected 2D and 3D Machine Vision Systems sales for 2025 through 2031. With 2D and 3D Machine Vision Systems sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 2D and 3D Machine Vision Systems industry.

This Insight Report provides a comprehensive analysis of the global 2D and 3D Machine Vision Systems 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 2D and 3D Machine Vision Systems portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 2D and 3D Machine Vision Systems market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 2D and 3D Machine Vision Systems 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 2D and 3D Machine Vision Systems.

This report presents a comprehensive overview, market shares, and growth opportunities of 2D and 3D Machine Vision Systems market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Vision Sensor

Camera

Camera Lens

Light Source

Other

Segmentation by Application:

Healthcare

Automotive

Consumer Electronics

Intelligent Transportation System

Other

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.

Cognex

Teledyne Technologies

Keyence

National Instruments

Texas Instruments

Basler

Baumer

Canon

Sick

Omron

Qualcomm

Scorpion Vision

Allied Vision Technologies

IDS Imaging Development Systems

OmniVision

DataLogic

Microscan Systems

ISRA Vision

FLIR Systems

Dalsa

Hermery

Key Questions Addressed in this Report

What is the 10-year outlook for the global 2D and 3D Machine Vision Systems market?

What factors are driving 2D and 3D Machine Vision Systems market growth, globally and by region?

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

How do 2D and 3D Machine Vision Systems market opportunities vary by end market size?

How does 2D and 3D Machine Vision Systems break out by Type, by Application?

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