

# 2D and 3D Machine Vision Systems Market, Global Outlook and Forecast 2022-2028

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## Abstracts

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.

This report contains market size and forecasts of 2D and 3D Machine Vision Systems in global, including the following market information:

Global 2D and 3D Machine Vision Systems Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global 2D and 3D Machine Vision Systems Market Sales, 2017-2022, 2023-2028, (K Units)

Global top five 2D and 3D Machine Vision Systems companies in 2021 (%)

The global 2D and 3D Machine Vision Systems market was valued at million in 2021 and is projected to reach US\$ million by 2028, at a CAGR of % during the forecast period.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.

Vision Sensor Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of 2D and 3D Machine Vision Systems include Cognex, Teledyne Technologies, Keyence, National Instruments, Texas Instruments, Basler, Baumer, Canon and Sick, etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the 2D and 3D Machine Vision Systems manufacturers, suppliers, distributors and industry experts on this industry, involving the sales, revenue, demand, price change, product type, recent development and plan, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global 2D and 3D Machine Vision Systems Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global 2D and 3D Machine Vision Systems Market Segment Percentages, by Type, 2021 (%)

Vision Sensor

Camera

Camera Lens

Light Source

Other

Global 2D and 3D Machine Vision Systems Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

## Global 2D and 3D Machine Vision Systems Market Segment Percentages, by Application, 2021 (%)

Healthcare

Automotive

Consumer Electronics

Intelligent Transportation System

Other

## Global 2D and 3D Machine Vision Systems Market, By Region and Country, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

## Global 2D and 3D Machine Vision Systems Market Segment Percentages, By Region and Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

## Rest of Middle East & Africa

### Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies 2D and 3D Machine Vision Systems revenues in global market, 2017-2022 (Estimated), (\$ millions)

Key companies 2D and 3D Machine Vision Systems revenues share in global market, 2021 (%)

Key companies 2D and 3D Machine Vision Systems sales in global market, 2017-2022 (Estimated), (K Units)

Key companies 2D and 3D Machine Vision Systems sales share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

Cognex

Teledyne Technologies

Keyence

National Instruments

Texas Instruments

Basler

Baumer

Canon

Sick

Omron

Qualcomm

Scorpion Vision

Allied Vision Technologies

IDS Imaging Development Systems

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Dalsa

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