

Global Machine Vision System Market by Component (Smart Camera, Embedded System, Frame Grabber, Lighting, and Lenses), Type (1D, 2D, and 3D Measurements), Application (Positioning, Identification, Verification, Measurement, and Flaw Detection), and Industry Vertical (Industrial, Healthcare, Electronics, Automotive, and Others) - Opportunity Analysis and Industry Forecast, 2014-2022

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Abstracts

Global machine vision system market size is expected to reach \$18.7 billion by 2022 from \$10.6 billion in 2015, growing at a CAGR of 8.7% from 2016 to 2022. Machine vision technology substitutes the human visual sense and judgment capabilities with digital cameras and image processing to complement manual inspections and measurements. Varied industries incorporate this technology to automate the production and improve product quality & speed. Machine vision system automatically acquires and analyzes the image to deliver desired information and control machines or processes.

Machine vision system enable high-speed production lines, clean room environments, hazardous environments, microscopic inspection, closed-loop process control, and precise non-contact measurement. Continued evolution of CMOS image sensors and rise in demand for automation in industrial applications are expected to foster high growth of machine vision system market during the forecast period. Furthermore, increase in demand for miniaturized production line monitoring systems and automated guided robots is expected to act as an opportunity for the market.

The global machine vision system market is segmented based on component, type,

application, industry vertical, and geography. Based on component, it is categorized into smart camera, embedded system, frame grabber, lighting, and lenses. Market by type comprises of 1D, 2D, and 3D measurement. By application, market is segmented into positioning, identification, verification, measurement, and flaw detection. By industry vertical, the market is divided into industrial, healthcare, electronics, automotive, and others. Geographically, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

POTENTIAL BENEFITS FOR STAKEHOLDERS

This report provides an in-depth analysis of the global machine vision system market, along with current trends and future estimations to identify lucrative investment opportunities

It identifies the key drivers, opportunities, and restraints that shape the market along with their impact analysis

Porter's Five Forces analysis highlights the potency of buyers and suppliers that participate in this market to facilitate better business decisions for stakeholders and strengthen their supplier and buyer networks

Market estimation of geographical regions is based on the current market scenario and future trends

MARKET SEGMENTATION

The global machine vision system market is segmented based on component, type, application, industry vertical, and geography.

BY COMPONENT

Smart Camera

Embedded System

Frame Grabber

Lighting

Lenses

BY TYPE

1D Measurement

2D Measurement

3D Measurement

BY APPLICATION

Positioning

Identification

Verification

Measurement

Flaw Detection

BY INDUSTRY VERTICAL

Industrial

Healthcare

Electronics

Automotive

Others

BY GEOGRAPHY

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Rest of Europe

Asia-Pacific

China

India

Japan

Taiwan

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

KEY PLAYERS

Cognex Corporation

Teledyne Technologies, Inc.

Keyence Corporation

National Instruments Corporation

Texas Instruments, Inc.

Basler AG

Baumer Optronic GmbH

Sick AG

Omron Corporation

Allied Vision Technologies GmbH

Other players in the value chain include (profiles not included in the report)

Intel Corporation,

Jai A/S,

Canon Inc.

Datalogic S.p.A.

Microscan Systems, Inc.

Adept Technology

IDS Imaging Development Systems GmbH

Machine Vision Technology

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Datalogic S.p.A.
Microscan Systems, Inc.
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