

Global Machine Vision Market: Size, Trend, Share, Opportunity Analysis & Forecast, 2014-2025

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Abstracts

Machine vision system is the automatic analysis and inspection of the production line, based on imaging, used in process control, verification, measurements, robot guidance, and other functions. Machine vision includes a complete solution starting from acquiring an image to interacting to management information system. The incapability of human inspector to maintain a high level of error recognition for a long period of time can be overcome by replacing them with machine vision system and services. The global machine vision market is expected to grow at a CAGR of 9.8% from 2017 to 2025.

Based on component, the market comprises smart camera, embedded system, frame grabber, lighting, and lenses. By application, the market is divided into positioning, identification, verification, measurement, and flaw detection. Market by type comprises 1D, 2D, and 3D measurements. Based on industry verticals market is classified as industrial, healthcare, electronics, automotive and others. Geographic breakdown and deep analysis of each of the aforesaid segments is included for North America, Europe, Asia-Pacific, and LAMEA.

MARKET DYNAMICS:

Drivers:

Cost-effective, faster, and high functionality & accuracy for an inspection procedure.

Continued evolution of CMOS image sensors.

Rise in demand for automation in industrial applications.

Restraints:

Intensive training and education.

MARKET PLAYERS:

The top players in the global machine vision market include Cognex Corporation, Teledyne Technologies, Inc., Keyence Corporation, Datalogic, IVISYS, Microscan, National Instruments, Optotune, ProPhotnix, and ViDi Systems.

KEY TAKEAWAYS**MARKET LANDSCAPE****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

Spain

Italy

Rest of Europe

Asia-Pacific

China

Japan

India

Australia

South Korea

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

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COMPANIES MENTIONED

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