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Machine Vision System Market By Type (1D Vision, 2D Vision, and 3D Vision), Product (PC-Based Machine Vision System, Vision Controllers, Standalone Vision System, Vision Sensors & Image-Based Bar Code Readers, and Others), and Application (Identification, Inspection, Gauging, Positioning, and Others), and End Use (Automotive, Healthcare, Manufacturing, Industrial, and Others): Global Opportunity Analysis and Industry Forecast, 2020-2027

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Abstracts

Increase in incorporation of automation in different industries has revolutionized manufacturing in which complex operations such as positioning, identification, verification, measurement, and flaw detection can be easily conducted with utilization of machine vision systems. Inefficiency of human workers to perform tasks with perfection has made machine vision systems more attractive. Machine vision system operations include image acquisition & analysis, recognition of certain features within that image, and exploitation of environmental constraints. A typical machine vision system consists of several components such as digital or analogous camera with optical lenses, embedded system consisting of processors & software, frame grabber, and lighting system.

The scope of the report discusses potential opportunities for the market players to enter the global machine vision system market. This report also provides in-depth analysis of the market, outlining current trends, key driving factors, and key areas of investment. The report includes Porter’s five forces analysis to understand competitive scenario of the industry and role of each stakeholder in the value chain. It features strategies

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adopted by key market players to maintain their foothold in the market.

Increase in demand for industrial applications and growth in demand for vision guided robotics system are major factors that drive growth of the global machine vision system market. However, lack of skilled professionals in manufacturing units is expected to hamper the market growth to a certain extent. Furthermore, growth in demand for AI and growth in adoption of industry 4.0 is expected to offer lucrative opportunities for the machine vision system market globally.

The report segments the global machine vision system market based on type, product, application, end use and region. The type segment is analyzed across 1D Vision, 2D Vision, and 3D Vision. Based on product, the machine vision system market is studied across PC based machine vision system, vision controllers, standalone vision system, vision sensors & image based bar code readers, and others. By application, the market is studied across identification, inspection, gauging, positioning, and others. By end use, the market is analyzed across automotive, healthcare, manufacturing, industrial and others. By region, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA, along with its prominent countries.

The key machine vision system market leaders profiled in the report include Baumer Ltd., Cgnex Corporation, Canon Inc., FLIR System, Intel Corporation, Keyence Corporation, National Instrument Corporation, Omron Corporation, Texas Instrument, and SICK AG. These key players adopt several strategies such as new product launch & development, acquisition, partnership & collaboration, and business expansion to increase the global machine vision system market share during the forecast period.

Key Benefits For Stakeholders

This study includes the analytical depiction of the machine vision system market forecast along with the current trends and future estimations to determine the imminent investment pockets.

The report presents information regarding the key drivers, restraints, and opportunities in the market.

The machine vision system market growth is quantitatively analyzed from 2019 to 2027 to highlight the financial competency of the industry.

Porter’s five forces analysis illustrates the potency of the buyers and suppliers

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in the industry.

Machine Vision System Market Key Segments

By Type

1D Vision

2D Vision

3D Vision

By Product

PC-Based Machine Vision System

Vision Controllers

Standalone Vision System

Vision Sensors & Image-Based bar code readers

Others

By Application

Identification

Inspection

Gauging

Positioning

Others

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By End Use

- Automotive
- Healthcare
- Manufacturing
- Industrial
- Others

By Region

- North America
  - U.S.
  - Canada
  - Mexico
- Europe
  - UK
  - Germany
  - France
  - Rest of Europe
- Asia-Pacific
  - China
  - Japan

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- India
- South Korea
- Rest of Asia-Pacific

- LAMEA
  - Latin America
  - Middle East
  - Africa

Key Market Players

- Baumer Ltd.
- Cgnex Corporation
- Canon Inc.
- FLIR System
- Intel Corporation
- Keyence Corporation
- National Instrument Corporation
- Omron Corporation
- Texas Instrument
- SICK AG

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