

Global Machine Vision System Market Size study & Forecast, by Product (PC-Based Machine Vision System, Vision Controllers, Standalone Vision System, Vision Sensors & Image-Based Bar Code Readers, and Others) by Application (Identification, Inspection, Gauging, Positioning, and Others), by Type (1D Vision, 2D Vision, and 3D Vision), by End Use (Automotive, Healthcare, Manufacturing, Industrial, and Others) and Regional Analysis, 2022-2029

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Abstracts

Global Machine Vision System Market is valued at approximately USD 15.04 billion in 2021 and is anticipated to grow with a healthy growth rate of more than 12.30% over the forecast period 2022-2029. The machine vision system market refers to the market for technologies and systems that use digital image processing and analysis to automate or enhance visual inspection and quality control processes in manufacturing and other industries. Machine vision systems use cameras, sensors, and computer algorithms to capture and analyze images of products and processes to detect defects, verify product quality, and improve production efficiency. The major driving factors for the Global Machine Vision System Market are growth in demand for Industry 4.0 and increasing demand for automation in industrial applications.

Industry 4.0 is a result of the interconnectedness of machinery and its processing. Additionally, it permits Internet of Things (IoT) powered autonomous manufacturing techniques. For instance, an online portal called PICK-PLACE estimates that by 2020,



robotics systems will be used in the order fulfilment, warehouse, and delivery processes of 55% of the 200 top global e-commerce businesses. As a result, the emergence of Industry 4.0 represents a significant advancement in the creation of connectivity with people, machines, and the physical world, and it presents lucrative opportunities for the expansion of the machine vision system market worldwide. Moreover, growth in demand for AI and rising technological advancements by the key market players are creating lucrative growth opportunities for the market over the forecast period 2022-2029. However, the lack of skilled professionals in Machine Vision systems stifle market growth throughout the forecast period of 2022-2029.

The key regions considered for the Global Machine Vision System Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America is dominating the market for machine vision systems due to the presence of several key players and the adoption of automation technologies across various industries. The market is primarily driven by the demand for quality control and inspection systems in the manufacturing and automotive industries. The United States is the largest market for machine vision systems in the region, followed by Canada. The Asia-Pacific region is the fastest-growing market for machine vision systems due to the increasing adoption of automation technologies in various industries, such as automotive, electronics, and manufacturing. China is the largest market for machine vision systems in the region, followed by Japan and South Korea.

Major market player included in this report are: Baumer Ltd. Cognex Corporation Canon, Inc. Teledyne FLIR LLCIntel Corporation Keyence Corporation National Instrument Corporation Omron Corporation Texas Instruments Sick AG

Recent Developments in the Market:

In April 2020, Cognex Corporation launched the Insight D900, a new deep learningbased vision system designed to solve complex inspection applications. In April 2022 Basler AG introduced the Basler Boost series, a new line of high-speed cameras designed for industrial applications that require high frame rates and high resolutions.



Global Machine Vision System Market Report Scope: Historical Data 2019-2020-2021 Base Year for Estimation 2021 Forecast period 2022-2029 Report Coverage Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends Segments Covered Product, Application, Type, End Use, Region Regional Scope North America; Europe; Asia Pacific; Latin America; Rest of the World Customization Scope Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below: 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 By Type: 1D Vision 2D Vision **3D** Vision By End Use: Automotive



Healthcare Manufacturing Industrial Others By Region: North America U.S. Canada Europe UK Germany France Spain

Italy ROE

Asia Pacific China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Rest of the World



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