

Machine Vision Market Size, Share & Trends Analysis Report By Offering (Hardware, Software, Services), By Product, By Application, By End-use Industry, By Region, And Segment Forecasts, 2022 - 2030

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Abstracts

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Machine Vision Market Growth & Trends

The global machine vision market size is expected to reach USD 25.92 billion by 2030, according to a new report by Grand View Research, Inc. It is expected to expand at a CAGR of 7.7% from 2022 to 2030. The ability of machine vision systems to process a large amount of information in a fraction of seconds is a major factor driving the market. The quick processing ability of machine vision systems is paving the way for manufacturers to achieve new milestones in manufacturing products with negligible defects. Moreover, the increasing adoption of robots across the industrial sectors is leading to the application of vision-guided robotic systems. Industrial verticals such as automotive, pharmaceutical, packaging, and food and beverage are prominent sectors where robotic systems are used, eventually fueling the demand for machine vision systems.

The machine vision technology encompasses various components in order to capture images of products to analyze them depending on different parameters of quality and safety. The technology is a combination of software and hardware that provides operational control to devices to execute functions such as capturing and processing images and measuring various characteristics required for decision making. Major components of the system comprise lighting, lens, image sensors, vision processing, and communication devices. Machine vision systems assist in resolving complicated

industrial tasks with reliability.

Industrial machine vision systems are usually more robust and demand high reliability, stability, and accuracy as compared to those used in institutional or educational applications. They cost lesser than systems used in military, aerospace, defense, and government applications. These factors are expected to lead to greater adaptability of the technology in the industrial sectors. In addition, the robotic vision systems used across the industries are also leading to the increasing adoption of the technology, thereby strengthening the overall market.

The technology has proven to be of key importance in the area of manufacturing and quality control owing to the increasing need for quality inspection and production. In addition, the growing automation in industrial segments is facilitating the growth of the market at a considerable rate. The technology has been witnessing extensive developments and innovative upgrades since its emergence. Several factors such as the growing inception of the technology and the increasing need for quality products are influencing the market growth. Furthermore, machine vision systems are gaining traction in medical and healthcare applications at a considerable pace. The analysis of medical images and robotic applications for carrying out various medical activities are the key roles of the technology in these sectors.

The automotive end-use industry held the largest revenue share in 2021. The inspection process which includes error-proofing and presence/absence checking, among others is responsible for the adoption of machine vision in the automotive industry. The food and beverage industry is expected to witness the highest growth over the projected period owing to the use of machine vision systems in packaging and bottling operations.

The Asia Pacific region grabbed the largest revenue share in 2021, which can be attributed to ample opportunities offered on account of large manufacturing practices carried out in the region. Countries such as China, Japan, Australia, and Singapore are considered to be potential markets for upcoming technologies, including machine vision. The region's significant industrial expansion has been contributing to the prosperity and development of various innovations and the adoption of different technologies significantly.

In addition, factors such as increasing focus on developments, expenditures on vision-related research activities, and the growing manufacturing base in the region are expected to spur the market growth in Asia Pacific. The regional market is anticipated to exhibit the fastest growth rate over the forecast period. The industry is facing challenges

due to the lack of awareness among users regarding the rapidly advancing machine vision technology. Moreover, the complexity of integrating machine vision systems is a major difficulty being faced by manufacturers, which is restraining the smoother growth of the industry.

Machine Vision Market Report Highlights

The PC-based product segment accounted for the largest revenue share in 2021 and is estimated to dominate the market over the forecast period

The identification application segment is anticipated to exhibit the fastest growth rate over the forecast period followed by the positioning and guidance application segment

By end-use industry, the food and beverage industry is expected to register the highest CAGR over the forecast period

The industry is expected to witness substantial growth in the Asia Pacific region over the next decade. This growth is witnessed in the wake of ample opportunities offered due to the presence of large manufacturing hubs in prominent countries (across the food and packaging, automotive, pharmaceutical, industrial, and consumer electronic sectors) such as China and Japan

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