

Robotic Vision Market - Forecasts from 2019 to 2024

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Abstracts

The robotic vision market is projected to witness a CAGR of 10.83% over the forecast period to reach US\$58.519 billion by 2024, increasing from US\$31.576 billion in 2018. Robotic vision is among the latest innovations in robotics and automation which is used in robots for better identification of things, navigation, finding objects, and inspection among others. This technology is useful for cost-cutting and creating a straight forward solution for all types of automation. Robotic vision has various applications across various industries. Robotics vision makes the manufacturing and packaging process easy by ensuring the quality of the products, checking product safety, preventing defective products or damaged products from entering the market, and tracing the products. Some common examples of the application of robotic vision include bar code reader, scanner, autonomous vehicles, facial recognition, etc. The robotics vision market growth is projected on account of factors such as advancement in technology, declining prices of chips and sensors, and growing demand for automation and surveillance. Increasing concern related to the safety of the worker coupled with stringent regulations regarding workers' safety is increasing the demand for robotics vision in various applications. The demand for this technology is also rising across various industries due to the benefits offered by it such as efficient packaging, better material handling, and quality check operations. Furthermore, the surging automotive industry coupled with the increasing application of robotics vision in the sector is bolstering the growth of the market.

By end-users, the automotive industry is expected to have a significant share of the market on account of early adoption of technology as robotics arms to manufacture and assemble vehicle parts and increasing application of robotics vision for the inspection of parts, welding, and material handling. By application, the food processing segment is expected to have a significant market share owing to the increasing use of robotics vision to reduce the operational cost and to ensure the quality of the product.

Geographically, Europe and North America together hold a major share of the market owing to a rise in the demand for these systems particularly for material handling applications due to high labor costs and stringent government regulations to provide a safer working environment. However, Asia Pacific is anticipated to witness the fastest market growth due to factors such as rapid industrialization, high infrastructure development and growing concerns about workers' safety. Rising demand for processed and frozen food products in emerging economies such as China and India will further fuel this regional growth to ensure vision supported packaging of food in harsh environments along with label verification and brand quality.

Segmentation:

By Component

Software

Hardware

By Industry Vertical

Electrical and Electronics

Automotive

Metal Processing

Food Processing

Others

By Geography

North America

USA

Canada

Mexico

South America

Brazil

Argentina

Others

Europe

Germany

France

United Kingdom

Spain

Others

Middle East and Africa

Israel

Saudi Arabia

Others

Asia Pacific

China

Japan

South Korea

India

Others

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