

Global Machine Vision Camera Market Size study & Forecast, by Type (Inline, Area Scan). by End-user Industries (Electronic & Semiconductor, Automotive, Healthcare, Food Processing, Aerospace, Other End-user Industries), and Regional Analysis, 2023-2030

<https://marketpublishers.com/r/G74E7E32B515EN.html>

Date: December 2023

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G74E7E32B515EN

Abstracts

Global Machine Vision Camera Market is valued at approximately USD xx billion in 2022 and is anticipated to grow with a healthy growth rate of more than 9% over the forecast period 2023-2030. A machine vision is a specialized digital imaging device tailored for deployment in industrial and automation settings, specifically within the realm of machine vision. Machine vision encompasses the technology enabling computers to analyze and make decisions based on visual data from the physical world. These cameras assume a pivotal role in the acquisition of images or video footage of objects, components, or scenes and subsequently apply computational processes to this visual data, facilitating a multitude of tasks including quality assessment, inspection, measurement, and automation. It is used to capture images or video footage of objects or scenes for analysis, inspection, measurement, and control purposes. The Machine Vision Camera Market is expanding because of factors such as increased demand for autonomous vehicles and increasing demand for quality inspection and automation in different industrial verticals.

The surge in adoption in autonomous vehicles is playing a vital role in the market growth across the globe. Machine vision is gaining high popularity in the development of autonomous vehicles, where cameras are used for navigation, object detection, and situational awareness. According to the Statista, in 2019, it was estimated that about 1.4 million autonomous vehicles with at least Level 3 autonomy are sold around the world, which is projected to rise for more than 58 million autonomous vehicles by 2030. Additionally, the market for machine vision cameras is propelled by the increasing

integration of cutting-edge technologies across diverse industries. This adoption has garnered momentum, particularly in real-time traffic monitoring using machine vision. Additionally, image recognition capabilities are facilitating the automation of tasks within control rooms and enabling proactive measures in various situations. Moreover, advancement in deep learning and artificial intelligence can improve its growth in forecast years. However, it has high initial costs which are negative for its development.

The key regions considered for the Global Machine Vision Camera Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa.

The substantial market share and regional expansion is attributed to the appealing prospects presented in the Asia Pacific region, particularly in sectors such as automotive, packaging, pharmaceuticals, and various other industrial applications. Also, Europe is estimated to grow significantly over the forecast period of 2022-2030. The surge in investments and financial support for the semiconductor sector is creating favorable conditions for the widespread adoption of automation technology. This, in turn, is poised to generate a heightened demand for connectors in the semiconductor industry. These systems find application across a diverse array of industry sectors, including oil and gas, aerospace, transportation, and automotive, effectively addressing their inspection requirements through available variations such as PC-based and smart camera-based Machine Vision Cameras.

Major market player included in this report are:

Cognex Corporation

Keyence Corporation

Teledyne Technologies Incorporated

TKH Group

Basler

Omron Corporation

Nation Instruments Corporation

Intel Corporation

Sony Group Corporation

Hitachi Ltd

Recent Developments in the Market:

In May 2023, Teledyne DALSA, a Teledyne Technologies subsidiary, officially announced the commencement of production for its Linea 2 4k Multispectral 5GigE line scan camera. This cutting-edge camera represents a significant advancement in vision systems, delivering exceptional performance and value by introducing a 5GigE interface, boasting five times the bandwidth of its predecessor, the Linea GigE camera.

Global Machine Vision Camera Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Type, End-user Industries, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

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 Type:

Inline

Area Scan

By End-user Industries:

Electronic & Semiconductor

Automotive

Healthcare

Food Processing

Aerospace

Other End-user Industries

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

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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