

# Machine Vision Camera Market to Witness a Growth Trajectory of US\$ 7.88 Billion by 2031

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/EINPresswire.com/ -- The global [machine vision camera market](#) is expected to grow at a significant rate over the coming years, registering a CAGR of 10.0% from 2023 to 2031, and the global market is estimated to reach a valuation of US\$ 7.88 billion by 2031. In 2022, the global market generated a revenue of US\$ 1.00 billion.

For more information, contact [astuteanalytica@astuteanalytica.com](mailto:astuteanalytica@astuteanalytica.com) or visit <https://www.astuteanalytica.com/request-sample/machine-vision-camera-market>



The machine vision cameras market is gradually expanding, which will help automate some operations, cut down on the time and manpower needed for inspection and testing, and boost production and efficiency. Additionally, dangerous locations can be employed for machine vision cameras, allowing for remote inspection and removing the need for human interaction.

According to research published in the International Journal of Engineering Research & Technology, using machine vision cameras in manufacturing procedures can save up to 25% of costs. This is due to the fact that machine vision cameras can accurately and efficiently detect product flaws, eliminating the need for manual inspection and rework. In addition, according to research by the Association for Advancing Automation, 60% of manufacturers who used machine vision technology reported lower labor expenses and 90% of them said their productivity had increased. This exemplifies how manufacturers may save a lot of money by using machine vision cameras.

Worldwide, businesses are pushing toward automation by implementing cutting-edge technologies for more effective operations and processes. For years, the manufacturing industries have used cameras for quality control, but with technological improvements and AI, inspection, measurement, and microscopy applications have expanded. The machine vision camera market is being driven by the increasing adoption of cutting-edge technology across sectors.

USB interface segment is anticipated to dominate the market with a market share of over 37%. The USB interface is a common option for machine vision cameras, providing plug-and-play simplicity, high-speed data transfer, and interoperability with different computer systems.

The automotive industry generates 31% of the global market revenue share. In order to increase production efficiency and cut costs, the automotive industry is using machine vision cameras for quality control, inspection, and assembly line automation. The use of machine vision cameras, such as parking cameras, CMS cameras for side views, and SVS cameras for a 360-degree view around the automobile, has grown owing to ongoing technical improvement. The market for machine vision cameras is anticipated to grow as ADAS and autonomous vehicles become more prevalent worldwide.

According to recent industry research, gauging and measurement applications are expected to account for over 26% of machine vision cameras' revenue. This is a reflection of the growing need for machine vision tools that can precisely assess and quantify goods and operations.

Several variables influence the need for machine vision cameras in gauging and measurement applications. Precision and accuracy in industrial processes are two major motivators. Machine vision cameras offer a highly accurate approach to gauge and measure goods and operations to make sure they adhere to specifications.

North America dominates the market, which is expected to account for more than 33% of market revenue. North America is rapidly overtaking Asia Pacific as the largest market, despite Asia Pacific now holding a 36% revenue share.

The robust and technologically sophisticated manufacturing sector in North America is one of the factors contributing to the continent's strong position. The strict laws and requirements for product quality and safety in North America are another factor driving the demand for machine vision cameras in industrial processes. The market in North America is also growing with the introduction of factory automation, which enhances the demand for precise and effective measuring and gauging.

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The increased need for automated tools in many industries has created a highly competitive market. According to Astute Analytica, this market will reach \$7.88 billion in market size by 2031, demonstrating a great deal of growth potential.

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Few significant businesses dominate the market, with the top 9 controlling over 43% of the revenue share. With 8% and 7% revenue shares, respectively, Basler AG and Teledyne DALSA are the two biggest competitors. This emphasizes the significance of innovative product development, strategic alliances, and successful marketing approaches in achieving a competitive edge in this market.

Companies must perform research to find future trends and customer needs if they want to stay ahead of the competition. This can assist them in customizing their goods and services to match consumer needs and outperform their rivals. Additionally, businesses should look into new alliances and collaborations to increase their skills and attract more clients.

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- Absolute Vision
- Adept Technology
- AE Robotics Co., Ltd.
- Allied Vision Technologies GmbH
- Basler AG
- Baumer
- CIS Corporation
- Cognex Corporation
- Dahua Technology Co., Ltd
- Eastman Kodak Company
- Electro Scientific Industries
- FRAMOS
- Hexagon AB
- Hikrobot Co., Ltd.
- ISRA Vision AG
- JAI
- Keyence Corporation
- Microscan Systems
- Mikrotron
- National Instruments Corporation
- OMRON Corporation

- Photron
- Qualcomm Technologies
- STEMMER IMAGING AG
- SVS-Vistek GmbH
- Teledyne FLIR LLC
- The Lucid Vision Labs
- Toshiba
- USS Vision
- Other prominent players

Figure 1.10: Major players in the machine vision market

The machine vision market is a highly competitive market with several major players. The market is characterized by a high degree of fragmentation, with many small and medium-sized companies competing for market share. The market is also characterized by a high degree of innovation, with many companies developing new and improved machine vision systems.

Figure 1.11: Machine vision market segments

- Camera
- Accessories (Lenses)
- Services
  - o Maintenance & Support
  - o Consulting & Training

Figure 1.12: Machine vision market segments

- Camera Link
- GigE
- USB
- CoaXPress

Figure 1.13: Machine vision market segments

- VGA to 127M
- Main 1M-25M

Figure 1.14: Machine vision market segments

- Absence/presence detection
- Gauging & measurement
- Quality Inspection & Verification
  - o Bar code reading
  - o Color verification
  - o Defect detection
  - o Optical character recognition and verification
  - o Part verification
  - o Pattern matching
- Others

Figure 1.15: Machine vision market segments

- Automotive

- Electrical & electronics
- Aerospace & Defense
- Food & Beverage
- Healthcare & Pharmaceutical
- Metal processing
- Warehouse & logistics
- Retail & E-commerce
- Others

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- North America
  - o The U.S.
  - o Canada
  - o Mexico
- Europe
  - Western Europe
    - The UK
    - Germany
    - France
    - Italy
    - Spain
  - Rest of Western Europe
    - Eastern Europe
      - Poland
      - Russia
- Rest of Eastern Europe
  - Asia Pacific
    - China
    - India
    - Japan
    - Australia & New Zealand
    - South Korea
    - ASEAN
    - Rest of Asia Pacific
  - Middle East & Africa (MEA)
    - Saudi Arabia
    - South Africa
    - UAE
    - Rest of MEA
  - South America
    - Argentina
    - Brazil
    - Rest of South America

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They are able to make well-calibrated decisions and leverage highly lucrative opportunities while surmounting the fierce challenges all because we analyze for them the complex business environment, segment-wise existing and emerging possibilities, technology formations, growth estimates, and even the strategic choices available. In short, a complete package. All this is possible because we have a highly qualified, competent, and experienced team of professionals comprising business analysts, economists, consultants, and technology experts. In our list of priorities, you-our patron-come at the top. You can be sure of the best cost-effective, value-added package from us, should you decide to engage with us.

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