

Computer Vision Market by Component (Hardware (Camera, Frame Grabber, Optics, Processor) and Software (Deep Learning and Traditional Software)), Product (PC Based and Smart Camera Based), Application, Vertical - Global Forecasts to 2023

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Abstracts

“The computer vision market is expected to grow at a CAGR of 7.80% between 2018 and 2023”

The overall computer vision market is expected to be valued at USD 11.94 billion in 2018 and is likely to reach USD 17.38 billion by 2023, at a CAGR of 7.80% between 2018 and 2023. The increasing demand for AI-integrated computer vision systems and the rising adoption of computer vision in UAVs are likely to create huge growth opportunities for the computer vision market. However, factors such as changing requirements of end users with respect to computer vision applications and lack of flexible computer vision solutions are restricting the growth of the market.

“Market for predictive maintenance applications is expected to grow at a high rate during the forecast period.”

Predictive maintenance (PdM) is one of the emerging application areas wherein computer vision systems are used. This application area is expected to expand in the coming years with the introduction of AI- and IoT-integrated computer vision systems. Thus, the market for predictive maintenance applications is expected to grow at the highest rate between 2018 and 2023.

“APAC is expected to hold the largest size of the computer vision market throughout the forecast period.”

The computer vision market in APAC can be segmented on the basis of country/region into India, China, Japan, South Korea, and Rest of APAC. APAC provides ample growth opportunities for the computer vision market as it is considered as a major manufacturing hub for various industries. The ongoing large-scale developments in the emerging economies in APAC owing to the growing use of advanced technologies in manufacturing industries is contributing to the growth of the computer vision market in APAC.

In the process of determining and verifying the market size for several segments and subsegments gathered through secondary research, extensive primary interviews have been conducted with key industry people. The breakup of the profile of primary participants has been given below.

By Company Type: Tier 1 – 54%, Tier 2 – 30%, and Tier 3 – 16%

By Designation: Directors – 15%, Managers – 48%, Vice President – 30%, and Others – 7%

By Region: North Americas – 20%, Europe – 30%, APAC – 40%, and RoW – 10%

Companies that are capable of providing IoT- and AI-integrated computer vision systems are expected to emerge as game changers as these systems will reduce human intervention and boost the overall efficiency of the systems.

The major companies covered in the report on the computer vision market are Cognex (US), Basler (Germany), OMRON (Japan), KEYENCE Corporation (Japan), National Instruments (US), Sony (Japan), Teledyne Technologies (US), Texas Instruments (US), Intel (US), Baumer Optronic (Germany), tordivel (Norway), ISRA VISION (Germany), MVTec Software (Germany), MediaTek (Taiwan), Cadence Design Systems (US), CEVA (US), Synopsys (US), SICK (Germany), and JAI A/S (Denmark).

Research Coverage:

The computer vision market has been segmented on the basis of hardware into cameras, frame grabbers, optics, LED lighting, processors, and others.

Major applications of computer vision systems include quality assurance and inspection, positioning and guidance, measurement, identification and predictive maintenance.

Computer vision systems have applications in industrial as well as non-industrial verticals; the industrial vertical covers the automotive, electronics and semiconductor, consumer electronics, glass, metals, wood and paper, pharmaceuticals, food and packaging, rubber and plastics, printing, solar panel manufacturing, and textiles industries, and the non-industrial vertical covers the healthcare, postal and logistics, intelligent transportation systems, security and surveillance, agriculture, consumer electronics, autonomous and semiautonomous vehicles, sports and entertainment, and retail industries.

The computer vision market has been segmented on the basis of geography into 4 major regions—North America, Europe, Asia Pacific (APAC), and Rest of the World (RoW).

Reasons to Buy This Report:

This research report covers industry analysis (industry trends), market ranking analysis of top players, and value chain analysis; company profiles, which discuss the competitive landscape, emerging and high-growth segments of the computer vision market, and high-growth regions; and market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Market penetration: Comprehensive information on computer vision systems offered by top players in the market

Product development/innovation: Detailed insights regarding R&D activities, emerging technologies, and product launches in the computer vision market

Market development: Comprehensive information on lucrative emerging markets—the report analyses the markets for computer vision across regions

Market diversification: Exhaustive information on new products, untapped geographies, recent developments, and investments in the computer vision

market

Competitive assessment: In-depth assessment of market ranking analysis, strategies, products, and manufacturing capabilities of the leading players in the computer vision market

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About

According to the new market research report "Computer Vision Market by Component (Hardware (Camera, Frame Grabber, Optics, Processor) and Software (Deep Learning and Traditional Software)), Product (PC Based and Smart Camera Based), Application, Vertical - Global Forecasts to 2023", the computer vision market is expected to be valued at USD 11.94 Billion in 2018 and is likely to reach USD 17.38 Billion by 2023, at a CAGR of 7.80% between 2018 and 2023. The growth of the market is mainly driven by the increasing adoption of computer vision in autonomous and semiautonomous vehicles, and consumer drones; and the rising adoption of Industry 4.0. Recent advancements in computer vision technology, comprising advanced cameras, deep learning software, and image sensors, have increased the scope for computer vision systems to be used in a wide range of applications in various industries.

The major companies operating in the computer vision market are:

Cognex (US)

Basler (Germany)

OMRON (Japan)

KEYENCE Corporation (Japan)

National Instruments (US)

Sony (Japan)

Teledyne Technologies (US)

Texas Instruments (US)

Intel (US)

Baumer Optronic (Germany)

Tordivel (Norway)

ISRA VISION (Germany)

MVTec Software (Germany)

MediaTek (Taiwan)

Cadence Design Systems (US)

CEVA (US)

Synopsys (US)

SICK (Germany)

JAI A/S (Denmark).

Computer vision market for autonomous and semiautonomous vehicles to grow at a significant rate between 2018 and 2023

The ongoing developments in advanced safety systems, such as computer vision-integrated ADAS systems, are fueling the growth of the computer vision market for the semiautonomous vehicles industry. Several automobile companies are working on the concept of autonomous cars. Hence, the computer vision market for the autonomous and semiautonomous vehicles industry is expected to grow at a significant rate during the forecast period.

APAC to hold a major share of the computer vision market throughout the forecast period

Asia Pacific (APAC) holds ample growth opportunities for the computer vision market as it is considered as a major manufacturing hub for most industries. China is a potential market for all emerging technologies, including computer vision. Its massive manufacturing industries have contributed to the growth and prosperity of the country. The computer vision market is likely to grow significantly in China as it perceives computer vision as a key enabler to modernization. In addition, strong competition among consumer electronics companies in APAC is likely to boost the adoption of computer vision systems in the region.

Market for smart camera-based computer vision systems to grow at a high rate during the forecast period

There is a growing demand for smart camera-based computer vision systems as these systems comprise an embedded controller with an integrated vision software, which is directly connected to one or more cameras. Smart cameras are easy to operate and include all components, from cameras to processors and input/output devices, embedded in a small enclosure. Owing to the abovementioned factors, the market for smart camera-based computer vision systems is expected to grow at a high rate during the forecast period.

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