

Report Information

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Smart Cameras Market Research Report—Global Forecast till 2030

Report / Search Code: MRFR/SEM/0818-CR

Publish Date: August, 2021

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Price	1-user PDF : \$ 4950.0	Site PDF : \$ 3250.0	Enterprise PDF : \$ 7250.0
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Description:

Global Smart Cameras Market Overview:

Smart Cameras Market size was valued at USD 2.85 billion in 2021. The smart cameras industry is projected to grow from USD 3.12 Billion in 2022 to USD 5.92 billion by 2030, exhibiting a compound annual growth rate (CAGR) of 9.57% during the forecast period (2022 - 2030). Rapid advancements in camera technology, and increasing adoption of automation systems by homes and industries are the key market drivers enhancing the market growth.

Global Smart Cameras Market Overview

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Smart Cameras Market Trends

- The high growth of the electronics and semiconductor industry boosts the market growth

The electronics and semiconductor industry across the globe is growing at a significant rate, owing to the constant adoption of automation, networking, mobility, and smart project initiatives. According to the India Brand Equity Foundation (IBEF), the Indian appliance and consumer electronics market was valued at US\$ 10.93 billion in 2019 and is expected to reach US\$ 21.18 billion by 2025. Thus, the high growth of the semiconductor and electronics industry is expected to drive the growth of the market during the forecast period.

Additionally, key players are taking the necessary steps to improve the accuracy and overall functionality of the devices. Although tech giants like Amazon, Google, and Apple are at the forefront, it is in the startup space where many of these new ideas and inventions are uncovered. For instance, in March 2020, Vivint Smart Home launched the Vivint Doorbell Camera Pro, an AI-powered doorbell camera that intelligently detects packages and actively helps protect them from porch pirates and other potential threats. The doorbell camera provides homeowners peace of mind by helping prevent crime before it happens. Therefore, such initiatives taken by key players have enhanced the smart cameras market CAGR across the globe in recent years.

However, the rapid adoption of IoT in smart homes is also supporting market growth. Consumers are shifting from traditionally mountable Wi-Fi cameras to the deployment of smart home security cameras to increase the security of their premises. These advanced smart home security cameras offer several benefits, which boost their installation in many households across the region. Smart home security cameras' ease of installation and easy availability drive the market revenue.

Smart Cameras Market Segment Insights:

Smart Cameras Type Insights

The Smart Cameras Market segmentation, based on type, includes stand-alone, single-chip, embedded, PC, and network-based. The embedded segment held the majority share in 2021 of the Smart Cameras Market revenue. This is primarily owing to the increasing number of computer vision systems that may be rapidly implemented as embedded systems in IoT due to the wide choice of hardware platforms and the number of open-source libraries for machine learning and artificial intelligence (AI). However, single-chip is the fastest-growing category over the forecast period due to the growing demand for single-chip cameras among consumers.

Smart Cameras Sensor Type Insights

The Smart Cameras Market segmentation, based on sensor type, includes CMOS and CCD. The CMOS segment dominated the market in 2021 and is projected to be the faster-growing segment during the forecast

period, 2022-2030. This is due to less manufacturing cost of CMOS sensors, less power required to enable smaller cameras, and higher resolution in small pixels. However, CCD is the fastest-growing category over the forecast period. This is attributed to growing demand in the industrial sector for improved performance, particularly for different applications operating in near-infrared wavelengths, there is the extensive usage of CCD image sensors to avoid the reduction in image sharpness which positively impacts the market growth.

Smart Cameras Scanning Type Insights

The Smart Cameras Market data has been bifurcated by scanning type into area scan and line scan. The line scan segment dominated the market in 2021 and is projected to be the faster-growing segment during the forecast period, 2022-2030. This is attributed to the growing demand for line scan smart cameras due to their cost-effectiveness. However, area scan is the fastest-growing category over the forecast period due to the growing demand for area scan cameras among photographers.

Figure 1: Smart Cameras Market by Scanning type, 2021 & 2030 (USD Million)

Smart Cameras Market by Scanning type, 2021 & 2030

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Smart Cameras Application Insights

Based on application, the global smart cameras industry has been segmented into surveillance & security, inspection and quality assurance, automated sorting, transportation & logistics, biometrics and access control, and guidance/machine vision. Surveillance & security held the largest segment share in 2021, owing to the growing penetration of the internet and optimized connectivity, manufacturing plants have shifted from analog to IP cameras. However, transportation & logistics is the fastest-growing category over the forecast period due to the growing demand for smart cameras in the automotive industry.

Smart Cameras Connectivity Insights

Based on connectivity, the global smart cameras industry has been segmented into Wi-Fi, Bluetooth, and wireless HART. Wireless HART held the largest segment share in 2021, owing to the significant advancements in home security solutions and IoT, with many homeowners preferring them for effective protection. However, Wi-Fi is the fastest-growing category due to the growing penetration of the internet over the forecast period.

Smart Cameras Regional Insights

By Region, the study provides market insights into North America, Europe, Asia-Pacific and Rest of the World. The North America smart cameras market accounted for USD 1.23 billion in 2021 and is expected to exhibit a significant CAGR growth during the study period. This is attributed to the rapid advancements in technology coupled with increasing investments in research and development, which is anticipated to drive the market in this region further. Moreover, US smart cameras market held the largest market share, and the Canada smart cameras market was the fastest-growing market in the North America region.

Further, the major countries studied in the market report are: The U.S, Canada, Germany, France, UK, Italy, Spain, China, Japan, India, Australia, South Korea, and Brazil.

Figure 3: Smart Cameras Market SHARE BY REGION 2021 (%)

Smart Cameras Market SHARE BY REGION 2021

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Europe smart cameras market accounts for the second-largest market share due to the deployment cost, and the maintenance cost of smart cameras systems is comparatively high compared to normal surveillance camera systems or CCTV cameras. Smart cameras systems cost hundreds, even thousands, depending on the features and number of cameras and monitoring systems. Further, the Germany smart cameras market held the largest market share, and the UK smart cameras market was the fastest-growing market in the European region.

The Asia-Pacific smart cameras Market is expected to grow at the fastest CAGR from 2022 to 2030. This is due to the growing use of smart cameras in this region's industries, such as aerospace, electronics, defense, and semiconductors. Moreover, China smart cameras market held the largest market share, and the India smart cameras market was the fastest-growing market in the Asia-Pacific region.

Smart Cameras Key Market Players & Competitive Insights

Major market players are spending a lot on R&D to increase their product lines, which will help the smart cameras market grow even more. Market participants are also taking various strategic initiatives to grow their worldwide footprint, with key market developments such as new product launches, contractual agreements, mergers and acquisitions, increased investments, and collaboration with other organizations. Competitors in the smart cameras industry must offer cost-effective items to expand and survive in an increasingly competitive and rising market environment.

One of the primary business strategies manufacturers adopt in the global smart cameras industry to benefit clients and expand the market sector is manufacturing locally to reduce operating costs. In the smart cameras market, major players such as Arlo (Sweden), Bosch Security Systems Inc. (Germany), Canon Inc. (Japan), and others are working on expanding the market demand by investing in research and development activities.

Microsoft Corporation is a multinational technology corporation producing consumer electronics, personal computers, computer software, and related services. Headquartered at the Microsoft campus in Washington, Microsoft's best-known software products are the Windows line of work techniques and the Internet Explorer

and Edge web browsers. In March 2022, Microsoft introduced its first AI-powered smart cameras for the Surface Hub 2. Businesses that have bought fully into Microsoft's future-of-work vision with the Surface Hub will now be able to upgrade its camera capabilities. The new Surface Hub 2 Smart Cameras supports automatic reframing, a wide field of view, and image correction features that improve meetings.

Also, Nikon Corporation, known just as Nikon, is a Japanese multinational corporation headquartered in Japan, specializing in optics and imaging products. The firm held by Nikon forms the Nikon Group. Nikon's products, such as smart cameras, binoculars, camera lenses, microscopes, measurement instruments, and the steppers utilized in the photolithography steps of semiconductor fabrication, it is the world's second-largest manufacturer. In November 2022, Nikon Corporation launched the ultra-compact LuFact smart cameras, which utilizes edge AI computing to increase the speed and accuracy of object inspection without the need for a computer connection.

Key Companies in the Smart Cameras market include

- Arlo (Sweden)
- Bosch Security Systems Inc. (Germany)
- Canon Inc.(Japan)
- Flir Systems Inc.(US.)
- Panasonic Corporation (Japan)
- Polaroid Corporation (Sweden)
- Raptor Photonics Ltd.(Ireland)
- Samsung Co. Ltd.(South Korea)
- Om Digital Solutions Corporations (UK.)
- Sony Corporation (Japan)
- Watec Co. Ltd.(US.)
- D-Link Corporation (Taiwan), among others

Smart Cameras Industry Developments

June 2022: Dahua Technology officially launched the full-color smart dual illuminators smart cameras series at its 2022 full-color online launch. The latest series integrates two illuminators, warm light and infrared light, with three supplementary light modes to provide clear and vivid full-color images while avoiding continuous use of warm light, providing a flexible solution for various night and low-light monitoring scenarios.

Smart Cameras Market Segmentation:

Smart Cameras Type Outlook

- Stand-Alone
- Single-Chip
-

Embedded

- PC
- Network-Based

Smart Cameras Sensor Type Outlook

- CMOS
- CCD

Smart Cameras Scanning Type Outlook

- Area Scan
- Line Scan

Smart Cameras Application Outlook

- Surveillance & Security
- Inspection and Quality Assurance
- Automated Sorting
- Transportation & Logistics
- Biometrics and Access Control
- Guidance/Machine Vision

Smart Cameras Connectivity Outlook

- Wi-Fi
- Bluetooth
- Wireless HART

Smart Cameras Regional Outlook

- North America

- - US
 - Canada
- Europe
 - Germany
 - France
 - UK
 - Italy
 - Spain
 - Rest of Europe
- Asia-Pacific
 - China
 - Japan
 - India
 - Australia
 - South Korea
 - Australia
 - Rest of Asia-Pacific
- Rest of the World
 - Middle East
 - Africa
 - Latin America

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