

# Global CMOS High-speed Cameras Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global CMOS High-speed Cameras market size was valued at US\$ 156 million in 2023 and is forecast to a readjusted size of USD 265 million by 2030 with a CAGR of 7.3% during review period.

CMOS high-speed cameras are high-speed imaging devices that use CMOS (complementary metal oxide semiconductor) image sensors. CMOS high-speed cameras achieve high-speed imaging through specialized CMOS image sensors, ultra-high-speed electronics, memory, and compact image processing electronics, and have the characteristics of high frame rate, high resolution, and high sensitivity. Users can control the camera through the user interface (UI) on the web browser, set parameters such as exposure, frame rate, preview composition, adjust focus, and finally trigger the camera to shoot high-speed video. Due to the large amount of data to be recorded and the limited bandwidth of most digital interfaces, these products usually record to local storage and then transfer images at a slower rate for later analysis in offline mode. The speed of these cameras is very high, and the light collection time on the sensor is very short, so it is necessary to use high-power lighting to illuminate the event.

The market growth of CMOS high-speed cameras is driven by a variety of factors, mainly including:

Demand for automation and intelligent manufacturing:

With the rapid development of industrial automation and intelligent manufacturing, the demand for high-speed and high-precision imaging equipment is increasing. CMOS high-speed cameras have become an indispensable part of automated production lines and intelligent manufacturing systems with their high-speed imaging capabilities and high resolution.

Wide application of machine vision:

Machine vision is increasingly widely used in quality assurance, process control, automated inspection, etc. As an important part of the machine vision system, CMOS high-speed cameras can achieve high-speed and high-precision image acquisition and processing, providing reliable data support for machine vision systems.

Expanded applications in emerging fields:

In addition to traditional industries such as automobiles, electronics, food and beverages, the application of CMOS high-speed cameras in emerging fields such as medical diagnosis, scientific research, and traffic management is also expanding. The increasing demand for high-speed imaging equipment in these emerging fields has provided new impetus for the market growth of CMOS high-speed cameras.

Technological innovation and continuous research and development:

With the continuous innovation and continuous research and development of technology, the performance of CMOS high-speed cameras has been continuously improved and the functions have been continuously expanded. The emergence of new sensor technology, image processing algorithms, and data processing technologies has enabled CMOS high-speed cameras to make significant progress in imaging speed, resolution, sensitivity, etc., further promoting the development of the market.

Policy support and industry standards:

The government's policy support for intelligent manufacturing and technological innovation, as well as the formulation and implementation of industry standards, provide a good policy environment and market environment for the market growth of CMOS high-speed cameras. These policies and standards promote the innovation and application of technology and drive the rapid development of the market.

In summary, the market growth of CMOS high-speed cameras is driven by a variety of factors, including the demand for automation and intelligent manufacturing, the widespread application of machine vision, the expansion of applications in emerging fields, technological innovation and continuous research and development, as well as policy support and industry standards. These factors have jointly promoted the rapid development of the CMOS high-speed camera market.

This report is a detailed and comprehensive analysis for global CMOS High-speed Cameras market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2024, are provided.

## **Key Features:**

Global CMOS High-speed Cameras market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2019-2030

Global CMOS High-speed Cameras market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2019-2030

Global CMOS High-speed Cameras market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2019-2030

Global CMOS High-speed Cameras market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2019-2024

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for CMOS High-speed Cameras

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global CMOS High-speed Cameras market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Phantom (Vision Research), IX Camera, Mikrotron, Photron, Weisscam, Nac Image Technology, AOS Technologies, Fastec Imaging, Optronis, Del Imaging Systems, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

### **Market Segmentation**

CMOS High-speed Cameras market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- 1,000 ? 5,000 FPS
- 5,000 ? 20,000 FPS
- 20,000 ? 100,000 FPS
- Above 100,000 FPS

#### Market segment by Application

- Industrial
- Media & Entertainment
- Sports
- Others

#### Major players covered

- Phantom (Vision Research)
- IX Camera
- Mikrotron
- Photron
- Weisscam
- Nac Image Technology
- AOS Technologies
- Fastec Imaging
- Optronis
- Del Imaging Systems

#### **Market segment by region, regional analysis covers**

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

#### **The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe CMOS High-speed Cameras product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of CMOS High-speed Cameras, with price, sales quantity, revenue, and global market share of CMOS High-speed Cameras from 2019 to 2024.

Chapter 3, the CMOS High-speed Cameras competitive situation, sales quantity,

revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the CMOS High-speed Cameras breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2019 to 2024. and CMOS High-speed Cameras market forecast, by regions, by Type, and by Application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of CMOS High-speed Cameras.

Chapter 14 and 15, to describe CMOS High-speed Cameras sales channel, distributors, customers, research findings and conclusion.

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