

# Global AI Camera Modules Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global AI Camera Modules market size was valued at US\$ 14850 million in 2025 and is forecast to a readjusted size of US\$ 40194 million by 2032 with a CAGR of 15.2% during review period.

In 2025, global AI Camera Modules production reached approximately 29 million units, with an average global market price of around US\$ 500 per unit. Annual production capacity is 35 million units. Gross Profit Margin: 38%. AI Camera Modules are compact imaging devices that combine a camera sensor with embedded artificial intelligence capabilities to perform tasks like object detection, recognition, tracking, and scene analysis directly on the device. The AI Camera Modules industry chain starts upstream with suppliers of image sensors, AI chips, lenses, and optical components. Midstream manufacturers integrate these components into AI-enabled camera modules with embedded processing and object detection/tracking algorithms. Downstream, OEMs, system integrators, and solution providers deploy these modules in applications like industrial automation, robotics, autonomous vehicles, smart surveillance, retail analytics, and consumer electronics, often bundling them with SDKs, software platforms, or cloud connectivity for analytics and monitoring. AI camera modules are transforming how machines perceive and interact with the world.

This report is a detailed and comprehensive analysis for global AI Camera Modules 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 2025, are provided.

### **Key Features:**

Global AI Camera Modules market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global AI Camera Modules market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global AI Camera Modules market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global AI Camera Modules market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

### **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 AI Camera Modules

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 AI Camera Modules 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 Sony Group Corporation ? (NYSE: SONY / TSE: 6758, Japan), Samsung Electronics Co., Ltd. ? (KRX: 005930, South Korea), OmniVision Technologies, Inc. ? (Private, USA), Hikvision Digital Technology Co., Ltd. ? (CSI: 002415, China), Zhejiang Dahua Technology Co., Ltd. ? (CSI: 002236, China), Panasonic Holdings Corporation ? (NYSE: PCRFY / TSE: 6752, Japan), STMicroelectronics N.V. ? (EPA: STM, Switzerland), ON Semiconductor Corporation (onsemi) ? (NASDAQ: ON, USA), Canon Inc. ? (NYSE: CAJ / TSE: 7751, Japan),

Sunny Optical Technology (Group) Co., Ltd. ? (HKG: 2382, China), etc.

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

## **Market Segmentation**

AI Camera Modules market is split by Type and by Application. For the period 2021-2032, 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

2D AI Camera Modules

3D / Depth AI Camera Modules

### Market segment by Deployment / Platform

Edge AI Modules

Cloud-Connected AI Modules

Hybrid Systems

### Market segment by Sensor Technology

CMOS / CCD-Based Modules

Time-of-Flight (ToF) / Depth Sensors

Infrared / Thermal Sensors

### Market segment by Application

Automotive

Industrial Automation

Security & Surveillance

Retail & Smart Stores

Healthcare & Medical Imaging

Smart Cities & Traffic Management

#### Major players covered

Sony Group Corporation ? (NYSE: SONY / TSE: 6758, Japan)

Samsung Electronics Co., Ltd. ? (KRX: 005930, South Korea)

OmniVision Technologies, Inc. ? (Private, USA)

Hikvision Digital Technology Co., Ltd. ? (CSI: 002415, China)

Zhejiang Dahua Technology Co., Ltd. ? (CSI: 002236, China)

Panasonic Holdings Corporation ? (NYSE: PCRFY / TSE: 6752, Japan)

STMicroelectronics N.V. ? (EPA: STM, Switzerland)

ON Semiconductor Corporation (onsemi) ? (NASDAQ: ON, USA)

Canon Inc. ? (NYSE: CAJ / TSE: 7751, Japan)

Sunny Optical Technology (Group) Co., Ltd. ? (HKG: 2382, China)

LG Innotek Co., Ltd. ? (KRX: 011070, South Korea)

Sharp Corporation ? (TSE: 6753, Japan)

Himax Technologies, Inc. ? (NASDAQ: HIMX, Taiwan)

Basler AG ? (XETRA: BSL, Germany)

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 AI Camera Modules product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AI Camera Modules, with price, sales quantity, revenue, and global market share of AI Camera Modules from 2021 to 2026.

Chapter 3, the AI Camera Modules competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AI Camera Modules breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021

to 2026.and AI Camera Modules market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 AI Camera Modules.

Chapter 14 and 15, to describe AI Camera Modules sales channel, distributors, customers, research findings and conclusion.

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