

# Global Image / Vision-Based Sensors 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 Image / Vision-Based Sensors market size was valued at US\$ 15558 million in 2025 and is forecast to a readjusted size of US\$ 27065 million by 2032 with a CAGR of 8.2% during review period.

In 2025, global Image / Vision-Based Sensors production reached approximately 15 million units, with an average global market price of around US\$ 1000 per unit. Annual production capacity is 17 million units. Gross Profit Margin: 39%. Image / Vision-Based Sensors are sensing systems that capture visual information from the environment using optical components and imaging devices such as CMOS or CCD sensors, convert light signals into digital images, and process this data through computer vision and artificial intelligence algorithms to enable functions such as object detection, recognition, measurement, tracking, and environmental perception across applications including industrial automation, autonomous systems, security, and consumer electronics. The image / vision-based sensors industry chain starts upstream with semiconductor companies producing CMOS/CCD image sensors, optical lens manufacturers, and material suppliers; the midstream includes camera module manufacturers, vision sensor providers, and system integrators that combine hardware with AI algorithms and embedded processing; downstream applications span industrial automation, automotive (ADAS/autonomous driving), security & surveillance, consumer electronics, healthcare imaging, and robotics, forming a tightly integrated ecosystem driven by both hardware innovation and software intelligence. The future of image / vision-based sensors will be defined by the convergence of AI and edge computing, where sensors evolve from passive data collectors into intelligent perception nodes capable of real-time decision-making.

This report is a detailed and comprehensive analysis for global Image / Vision-Based Sensors 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 Image / Vision-Based Sensors market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Image / Vision-Based Sensors 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 Image / Vision-Based Sensors 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 Image / Vision-Based Sensors 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 Image / Vision-Based Sensors

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 Image / Vision-Based Sensors 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 (NYSE: SONY, Japan), Samsung Electronics (KRX: 005930, South Korea), ON Semiconductor (NASDAQ: ON, USA), STMicroelectronics (NYSE: STM, Switzerland), Canon (TYO: 7751, Japan), Panasonic (TYO: 6752, Japan), Teledyne Technologies (NYSE: TDY, USA), Hamamatsu Photonics (TYO: 6965, Japan), Cognex (NASDAQ: CGNX, USA), Keyence (TYO: 6861, Japan), etc.

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

## **Market Segmentation**

Image / Vision-Based Sensors 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 Vision Sensors

3D Vision Sensors (ToF, Structured Light, Stereo Vision)

Infrared / Thermal Imaging Sensors

Multispectral / Hyperspectral Sensors

### Market segment by Component

Image Sensors (CMOS, CCD)

Optical Components (Lenses, Filters)

Vision Processing Units (ISP, AI Chips)

Camera Modules / Smart Cameras

## Market segment by Processing Mode

- Edge-Based Vision Sensors
- Embedded Vision Systems
- PC-Based Vision Systems
- Cloud-Based Vision Processing

## Market segment by Application

- Manufacturing
- Automotive
- Electronics & Semiconductor
- Healthcare
- Aerospace & Defense
- Logistics & Warehousing
- Agriculture

## Major players covered

- Sony (NYSE: SONY, Japan)
- Samsung Electronics (KRX: 005930, South Korea)
- ON Semiconductor (NASDAQ: ON, USA)
- STMicroelectronics (NYSE: STM, Switzerland)
- Canon (TYO: 7751, Japan)

Panasonic (TYO: 6752, Japan)

Teledyne Technologies (NYSE: TDY, USA)

Hamamatsu Photonics (TYO: 6965, Japan)

Cognex (NASDAQ: CGNX, USA)

Keyence (TYO: 6861, Japan)

Omron (TYO: 6645, Japan)

Basler AG (ETR: BSL, Germany)

SICK AG (Private, Germany)

Datalogic (BIT: DAL, Italy)

Hikvision (SZSE: 002415, China)

Dahua Technology (SZSE: 002236, China)

Huawei (Private, China)

Baidu (NASDAQ: BIDU, China)

OmniVision Technologies (Private / SSE-listed affiliate, China)

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 Image / Vision-Based Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Image / Vision-Based Sensors, with price, sales quantity, revenue, and global market share of Image / Vision-Based Sensors from 2021 to 2026.

Chapter 3, the Image / Vision-Based Sensors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Image / Vision-Based Sensors 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 Image / Vision-Based Sensors 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 Image / Vision-Based Sensors.

Chapter 14 and 15, to describe Image / Vision-Based Sensors sales channel, distributors, customers, research findings and conclusion.

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