

Global Image / Vision-Based Sensors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Image / Vision-Based Sensors market size is expected to reach \$ 27065 million by 2032, rising at a market growth of 8.2% CAGR during the forecast period (2026-2032).

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 studies the global Image / Vision-Based Sensors production, demand, key

manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Image / Vision-Based Sensors and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Image / Vision-Based Sensors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Image / Vision-Based Sensors total production and demand, 2021-2032, (K Units)

Global Image / Vision-Based Sensors total production value, 2021-2032, (USD Million)

Global Image / Vision-Based Sensors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Image / Vision-Based Sensors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Image / Vision-Based Sensors domestic production, consumption, key domestic manufacturers and share

Global Image / Vision-Based Sensors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Image / Vision-Based Sensors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Image / Vision-Based Sensors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Image / Vision-Based Sensors market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices

used in analyzing the World Image / Vision-Based Sensors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Image / Vision-Based Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Image / Vision-Based Sensors Market, Segmentation by Type:

2D Vision Sensors

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

Infrared / Thermal Imaging Sensors

Multispectral / Hyperspectral Sensors

Global Image / Vision-Based Sensors Market, Segmentation by Component:

- Image Sensors (CMOS, CCD)
- Optical Components (Lenses, Filters)
- Vision Processing Units (ISP, AI Chips)
- Camera Modules / Smart Cameras

Global Image / Vision-Based Sensors Market, Segmentation by Processing Mode:

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

Global Image / Vision-Based Sensors Market, Segmentation by Application:

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

Companies Profiled:

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)

Key Questions Answered:

1. How big is the global Image / Vision-Based Sensors market?
2. What is the demand of the global Image / Vision-Based Sensors market?
3. What is the year over year growth of the global Image / Vision-Based Sensors market?
4. What is the production and production value of the global Image / Vision-Based Sensors market?
5. Who are the key producers in the global Image / Vision-Based Sensors market?
6. What are the growth factors driving the market demand?

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