

Global Image / Vision-Based Sensors Market Growth 2026-2032

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Abstracts

The global Image / Vision-Based Sensors market size is predicted to grow from US\$ 14791 million in 2025 to US\$ 26470 million in 2032; it is expected to grow at a CAGR of 8.7% from 2026 to 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.

United States market for Image / Vision-Based Sensors is estimated to increase from

US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Image / Vision-Based Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Image / Vision-Based Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Image / Vision-Based Sensors players cover Sony (NYSE: SONY, Japan), Samsung Electronics (KRX: 005930, South Korea), ON Semiconductor (NASDAQ: ON, USA), STMicroelectronics (NYSE: STM, Switzerland), Canon (TYO: 7751, Japan), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the ?Image / Vision-Based Sensors Industry Forecast? looks at past sales and reviews total world Image / Vision-Based Sensors sales in 2025, providing a comprehensive analysis by region and market sector of projected Image / Vision-Based Sensors sales for 2026 through 2032. With Image / Vision-Based Sensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Image / Vision-Based Sensors industry.

This Insight Report provides a comprehensive analysis of the global Image / Vision-Based Sensors landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Image / Vision-Based Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Image / Vision-Based Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Image / Vision-Based Sensors and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Image / Vision-Based Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Image / Vision-Based Sensors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

2D Vision Sensors

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

Infrared / Thermal Imaging Sensors

Multispectral / Hyperspectral Sensors

Segmentation by Component:

Image Sensors (CMOS, CCD)

Optical Components (Lenses, Filters)

Vision Processing Units (ISP, AI Chips)

Camera Modules / Smart Cameras

Segmentation by Processing Mode:

Edge-Based Vision Sensors

Embedded Vision Systems

PC-Based Vision Systems

Cloud-Based Vision Processing

Segmentation by Application:

Manufacturing

Automotive

Electronics & Semiconductor

Healthcare

Aerospace & Defense

Logistics & Warehousing

Agriculture

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Image / Vision-Based Sensors market?

What factors are driving Image / Vision-Based Sensors market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Image / Vision-Based Sensors market opportunities vary by end market size?

How does Image / Vision-Based Sensors break out by Type, by Application?

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