

Global 3D Stacked CMOS Image Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 3D Stacked CMOS Image Sensor market size is expected to reach \$ 1511 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

In 2025, global 3D Stacked CMOS Image Sensor production reached approximately 176.1 M units, with an average global market price of around 5,430 USD/K units. 3D Stacked CMOS Image Sensor is an advanced image sensor structured by vertically stacking two or more semiconductor wafers (including photosensitive layer, circuit layer and functional layer) through through-silicon vias (TSVs) or hybrid bonding technology. Different from traditional front-illuminated (FI) and back-illuminated (BSI) planar structures, it separates the photosensitive area from the signal processing circuit, allowing each layer to be independently optimized for its specific function. This design significantly enhances performance indicators such as light sensitivity, data transmission speed and integration density, while reducing chip area and power consumption, and is widely applied in high-end full-frame imaging scenarios that require balanced performance in resolution, speed and noise control.

The demand for 3D Stacked CMOS Image Sensors is driven by the upgrading of professional imaging equipment, the growing need for high-performance sensors in industrial measurement and medical diagnosis, and the expanding application of high-speed, high-definition imaging in aerospace and other fields. As a core technology for high-end full-frame sensors, it caters to the market pursuit of extreme imaging performance. Business opportunities lie in optimizing stacking processes to improve product yield and reliability, integrating intelligent processing functions into independent functional layers to meet smart imaging needs, developing products compatible with global shutter technology for high-speed detection scenarios, and expanding

applications in high-end full-frame equipment to seize the high-value market, while exploring cost-effective solutions to penetrate mid-range application fields.

This report studies the global 3D Stacked CMOS Image Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 3D Stacked CMOS Image Sensor 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 3D Stacked CMOS Image Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 3D Stacked CMOS Image Sensor total production and demand, 2021-2032, (Million Units)

Global 3D Stacked CMOS Image Sensor total production value, 2021-2032, (USD Million)

Global 3D Stacked CMOS Image Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global 3D Stacked CMOS Image Sensor consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: 3D Stacked CMOS Image Sensor domestic production, consumption, key domestic manufacturers and share

Global 3D Stacked CMOS Image Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global 3D Stacked CMOS Image Sensor production by Stacking Layer Count, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global 3D Stacked CMOS Image Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global 3D Stacked CMOS Image Sensor 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, Samsung, OmniVision Technologies, STMicroelectronics, Onsemi, SK Hynix, SmartSens, Canon, 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 3D Stacked CMOS Image Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/K Units) by manufacturer, by Stacking Layer Count, 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 3D Stacked CMOS Image Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 3D Stacked CMOS Image Sensor Market, Segmentation by Stacking Layer Count:

Dual-Layer Stacked

Triple-Layer Stacked

Multi-Layer Stacked

Global 3D Stacked CMOS Image Sensor Market, Segmentation by Bonding Technology:

TSV Bonding

Hybrid Bonding

Wafer-Level Bonding

Global 3D Stacked CMOS Image Sensor Market, Segmentation by Functional Layer Integration:

Photosensitive + Circuit Layer Stacked Sensor

Multi-Functional Circuit Layer Stacked Sensor

AI Processing Layer Integrated Stacked Sensor

Global 3D Stacked CMOS Image Sensor Market, Segmentation by Application:

Consumer Electronics

Automotive Electronics

Industrial Measurement

Medical Imaging

Others

Companies Profiled:

SONY

Samsung

OmniVision Technologies

STMicroelectronics

Onsemi

SK Hynix

SmartSens

Canon

Key Questions Answered:

1. How big is the global 3D Stacked CMOS Image Sensor market?
2. What is the demand of the global 3D Stacked CMOS Image Sensor market?
3. What is the year over year growth of the global 3D Stacked CMOS Image Sensor market?
4. What is the production and production value of the global 3D Stacked CMOS Image Sensor market?
5. Who are the key producers in the global 3D Stacked CMOS Image Sensor market?
6. What are the growth factors driving the market demand?

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