

# Global 3D Stacked CMOS Image Sensor 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 3D Stacked CMOS Image Sensor market size was valued at US\$ 984 million in 2025 and is forecast to a readjusted size of US\$ 1511 million by 2032 with a CAGR of 6.2% during review period.

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 is a detailed and comprehensive analysis for global 3D Stacked CMOS Image Sensor market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Stacking Layer Count 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 3D Stacked CMOS Image Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/K Units), 2021-2032

Global 3D Stacked CMOS Image Sensor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/K Units), 2021-2032

Global 3D Stacked CMOS Image Sensor market size and forecasts, by Stacking Layer Count and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/K Units), 2021-2032

Global 3D Stacked CMOS Image Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/K Units), 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 3D Stacked CMOS Image Sensor
- 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 3D Stacked CMOS Image Sensor 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, 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.

## **Market Segmentation**

3D Stacked CMOS Image Sensor market is split by Stacking Layer Count and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Stacking Layer Count, 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 Stacking Layer Count

Dual-Layer Stacked

Triple-Layer Stacked

Multi-Layer Stacked

### Market segment by Bonding Technology

TSV Bonding

Hybrid Bonding

Wafer-Level Bonding

### Market segment by Functional Layer Integration

Photosensitive + Circuit Layer Stacked Sensor

Multi-Functional Circuit Layer Stacked Sensor

AI Processing Layer Integrated Stacked Sensor

## Market segment by Application

Consumer Electronics

Automotive Electronics

Industrial Measurement

Medical Imaging

Others

## Major players covered

SONY

Samsung

OmniVision Technologies

STMicroelectronics

Onsemi

SK Hynix

SmartSens

Canon

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 3D Stacked CMOS Image Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 3D Stacked CMOS Image Sensor, with price, sales quantity, revenue, and global market share of 3D Stacked CMOS Image Sensor from 2021 to 2026.

Chapter 3, the 3D Stacked CMOS Image Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 3D Stacked CMOS Image Sensor 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 Stacking Layer Count and by Application, with sales market share and growth rate by Stacking Layer Count, 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 3D Stacked CMOS Image Sensor market forecast, by regions, by Stacking Layer Count, 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 3D Stacked CMOS Image Sensor.

Chapter 14 and 15, to describe 3D Stacked CMOS Image Sensor sales channel, distributors, customers, research findings and conclusion.

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