

# Global Stacked CMOS Image Sensor Market Growth 2026-2032

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## Abstracts

The global Stacked CMOS Image Sensor market size is predicted to grow from US\$ 5516 million in 2025 to US\$ 11971 million in 2032; it is expected to grow at a CAGR of 11.2% from 2026 to 2032.

In 2024, global Stack CMOS Image Sensor production reached approximately 1.55 billion Units, with an average global market price of around US\$ 3.65 per unit.

A Stacked CMOS Image Sensor (Stacked CIS) is an upgraded architecture of CMOS image sensor, which realizes higher performance and smaller size by separating and stacking the two core functional modules of the sensor: the pixel array layer (responsible for photoelectric conversion) and the logic circuit layer (responsible for signal processing and readout). It is the mainstream architecture of high-performance CIS in current consumer electronics, automotive, and professional imaging fields.

The CMOS image sensor industry chain presents a vertical hierarchical structure with clear division of labor, spanning from upstream core material and equipment supply, midstream sensor design, manufacturing and packaging, to downstream application terminal integration. The industry has strong technical barriers, high concentration of leading enterprises, and close collaborative links between upstream and downstream links.

### I. Upstream: Core Materials & Equipment (Technical Core, High Barriers)

The upstream segment provides the essential materials, equipment and intellectual property (IP) required for CIS design and manufacturing, and is the foundation of the entire industry chain. The market is dominated by a small number of international

enterprises.

## 1. Core Materials

Semiconductor Wafer Substrate for CIS: chip manufacturing, the most critical material with the highest cost.

Photoresist: Key material for photolithography process, determines pixel precision.

Metal Target Material: Used for depositing metal wiring layers (e.g., copper, aluminum).

Packaging Materials: Include lead frames, encapsulants, bonding wires, etc.

## 2. Manufacturing Equipment

The equipment accounts for a large proportion of CIS production costs, and the core links are monopolized by overseas enterprises:

Photolithography Machine: The core equipment for pixel pattern transfer, directly determines the pixel size and sensor resolution. The leading enterprise is ASML (EUV lithography machines are used for advanced process CIS).

Etching Equipment: Used for pattern processing of wafer layers, with representatives such as Applied Materials, Tokyo Electron (TEL).

Deposition Equipment: For film deposition of various material layers, leading manufacturers include Applied Materials, TEL.

Testing Equipment: Used for performance testing of CIS chips, such as Teradyne, Advantest.

## 3. IP & Design Tools

IP Authorization: Core technologies such as pixel structure (BSI/Stacked), global shutter, and HDR algorithms are mostly held by professional IP companies, such as ARM, Synopsys, Cadence.

EDA Tools: Essential for CIS circuit design, the market is monopolized by Synopsys, Cadence, and Mentor Graphics.

## II. Midstream: CIS Design, Manufacturing & Packaging (Value Core, High Concentration)

The midstream is the core value link of the industry chain, covering three key links: chip design, wafer fabrication, and packaging and testing. The industry is divided into two business models: IDM (Integrated Device Manufacturer) and Fabless + Foundry + OSAT.

### 1. Chip Design (Fabless/IDM Design Division)

The link determines the technical route and performance parameters of CIS (e.g., pixel structure, resolution, dynamic range). It has high R&D investment and strong technical barriers, and the market concentration is extremely high.

**IDM Mode Enterprises:** Integrate design, manufacturing, packaging and testing, with strong technical strength. Representative enterprises: Sony Semiconductor Solutions, Samsung Electronics, OmniVision (partially self-manufactured).

**Fabless Mode Enterprises:** Focus on design, outsource manufacturing and packaging to third parties. Representative enterprises: On Semiconductor, SK Hynix, GalaxyCore.

### 2. Wafer Fabrication (Foundry)

It is responsible for manufacturing CIS chips according to the design scheme, and the advanced process (e.g., 45nm, 28nm) is the key to improving sensor performance.

**Main Foundries:** TSMC (the largest foundry, focusing on high-end stacked CIS), UMC, GlobalFoundries, SMIC (focusing on mid-to-low-end CIS process).

**IDM Self-Manufacturing Lines:** Sony and Samsung have their own advanced wafer factories, which can realize the rapid iteration of proprietary technologies (e.g., Sony's Stacked CMOS).

### 3. Packaging and Testing (OSAT)

The link directly affects the reliability, size and heat dissipation performance of CIS, and the advanced packaging technology is the key to miniaturization and high performance.

**Traditional Packaging:** Includes wire bonding, encapsulation, etc., suitable for mid-to-low-end CIS, with manufacturers such as ASE Group, Amkor Technology.

**Advanced Packaging:** Flip-chip packaging (Flip Chip), wafer-level packaging (WLP), chip-scale packaging (CSP) are the mainstream, which can reduce the sensor size and improve the light sensitivity. Leading enterprises: ASE Group, Amkor, STATS ChipPAC.

**Testing:** Includes wafer testing (CP) and final testing (FT), to ensure the yield and performance consistency of CIS, with manufacturers such as Xcerra, Teradyne.

### III. Downstream: Application Terminal Integration (Demand Core, Diversified Scenarios)

Downstream applications cover consumer electronics, automotive electronics, industrial detection, security monitoring, medical imaging and other fields. The demand of different scenarios drives the iteration of CIS technology, and the B2B field has become the main growth engine in recent years.

#### 1. Consumer Electronics (Traditional Main Market, Gradual Saturation)

**Application Scenarios:** Smartphones (front and rear cameras), tablets, laptops, digital cameras, drones.

**Demand Characteristics:** Pursue high resolution (100MP+), small pixel size (0.7 $\mu$ m), stacked structure, but the market growth is slowing down with the saturation of smartphone shipments.

**Key Customers:** Apple, Samsung, Xiaomi, Huawei, DJI.

#### 2. Automotive Electronics (Fastest Growing Track, High Barriers)

**Application Scenarios:** Vehicle-mounted cameras (front view, rear view, surround view, in-cabin monitoring), LiDAR supporting sensors, ADAS systems.

**Demand Characteristics:** Need to meet AEC-Q100 automotive-grade certification, with high requirements for high temperature resistance, anti-electromagnetic interference, high dynamic range (HDR > 120dB) and reliability. The single-vehicle CIS loading quantity can reach 8-16 units with the upgrade of autonomous driving.

**Key Customers:** Tesla, BYD, Volkswagen, Bosch, Continental.

### 3. Security Monitoring (Stable Demand, High Performance Requirements)

Application Scenarios: Network cameras (IPC), analog cameras, ball machines, video recorders (NVR).

Demand Characteristics: Emphasize low illumination imaging ability, wide dynamic range, and night vision effect. 4K high-definition and AI intelligent recognition are the main trends.

Key Customers: Hikvision, Dahua Technology, Uniview.

### 4. Industrial & Medical Fields (High Profit Margin, Professional Demand)

Industrial Detection: Machine vision cameras, semiconductor detection equipment, barcode scanners, requiring global shutter, high frame rate (thousands of frames/second) and high precision. Key customers: Keyence, Cognex.

Medical Imaging: Endoscopes, dental imaging equipment, portable detectors, requiring high signal-to-noise ratio, low radiation and miniaturization. Key customers: Olympus, Fujifilm.

## IV. Industry Chain Characteristics & Profit Distribution

Profit Concentration: The upstream equipment and midstream design links occupy the highest profit margin, while the downstream application terminal profit margin is relatively low.

Technical Synergy: The iteration of downstream application demand (e.g., automotive high dynamic range, industrial global shutter) drives the R&D of midstream design and upstream material and equipment technologies, forming a positive feedback loop.

Regional Concentration: The upstream and midstream high-end links are concentrated in Japan, South Korea, the United States and Taiwan of China; the downstream application market is dominated by China, which is the largest CIS consumer market in the world.

LP Information, Inc. (LPI) ' newest research report, the "Stacked CMOS Image Sensor Industry Forecast" looks at past sales and reviews total world Stacked CMOS Image

Sensor sales in 2025, providing a comprehensive analysis by region and market sector of projected Stacked CMOS Image Sensor sales for 2026 through 2032. With Stacked CMOS Image Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Stacked CMOS Image Sensor industry.

This Insight Report provides a comprehensive analysis of the global Stacked CMOS Image Sensor 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 Stacked CMOS Image Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Stacked CMOS Image Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Stacked CMOS Image Sensor 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 Stacked CMOS Image Sensor.

This report presents a comprehensive overview, market shares, and growth opportunities of Stacked CMOS Image Sensor market by product type, application, key manufacturers and key regions and countries.

### **Segmentation by Type:**

12MP

26MP

Others

### **Segmentation by Stacking Layer Count:**

2?Stack CIS

3?Stack CIS

Multi?Stack CIS (?4 layers)

**Segmentation by Bonding Technology:**

Micro?bump Bonding

Cu?Cu Hybrid Bonding

Through?Silicon Vias (TSV) Bonding

**Segmentation by Application:**

Mobile Phone

Automobile

Others

**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

Samsung

OmniVision

STMicroelectronics

On Semi

GalaxyCore

SOI

Smartsens Technology

Canon

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Stacked CMOS Image Sensor market?

What factors are driving Stacked CMOS Image Sensor market growth, globally and by region?

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

How do Stacked CMOS Image Sensor market opportunities vary by end market size?

How does Stacked CMOS Image Sensor break out by Type, by Application?

## Contents

### 1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

### 2 EXECUTIVE SUMMARY

#### 2.1 World Market Overview

- 2.1.1 Global Stacked CMOS Image Sensor Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Stacked CMOS Image Sensor by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Stacked CMOS Image Sensor by Country/Region, 2021, 2025 & 2032

#### 2.2 Stacked CMOS Image Sensor Segment by Type

- 2.2.1 12MP
- 2.2.2 26MP
- 2.2.3 Others
- 2.2.4 Stacked CMOS Image Sensor Sales by Type
  - 2.2.4.1 Global Stacked CMOS Image Sensor Sales Market Share by Type (2021-2026)
  - 2.2.4.2 Global Stacked CMOS Image Sensor Revenue and Market Share by Type (2021-2026)
  - 2.2.4.3 Global Stacked CMOS Image Sensor Sale Price by Type (2021-2026)

#### 2.3 Stacked CMOS Image Sensor Segment by Stacking Layer Count

- 2.3.1 2?Stack CIS
- 2.3.2 3?Stack CIS
- 2.3.3 Multi?Stack CIS (?4 layers)
- 2.3.4 Stacked CMOS Image Sensor Sales by Stacking Layer Count
  - 2.3.4.1 Global Stacked CMOS Image Sensor Sales Market Share by Stacking Layer Count (2021-2026)
  - 2.3.4.2 Global Stacked CMOS Image Sensor Revenue and Market Share by Stacking

Layer Count (2021-2026)

2.3.4.3 Global Stacked CMOS Image Sensor Sale Price by Stacking Layer Count (2021-2026)

2.4 Stacked CMOS Image Sensor Segment by Bonding Technology

2.4.1 Micro?bump Bonding

2.4.2 Cu?Cu Hybrid Bonding

2.4.3 Through?Silicon Vias (TSV) Bonding

2.4.4 Stacked CMOS Image Sensor Sales by Bonding Technology

2.4.4.1 Global Stacked CMOS Image Sensor Sales Market Share by Bonding Technology (2021-2026)

2.4.4.2 Global Stacked CMOS Image Sensor Revenue and Market Share by Bonding Technology (2021-2026)

2.4.4.3 Global Stacked CMOS Image Sensor Sale Price by Bonding Technology (2021-2026)

2.5 Stacked CMOS Image Sensor Segment by Application

2.5.1 Mobile Phone

2.5.2 Automobile

2.5.3 Others

2.5.4 Stacked CMOS Image Sensor Sales by Application

2.5.4.1 Global Stacked CMOS Image Sensor Sale Market Share by Application (2021-2026)

2.5.4.2 Global Stacked CMOS Image Sensor Revenue and Market Share by Application (2021-2026)

2.5.4.3 Global Stacked CMOS Image Sensor Sale Price by Application (2021-2026)

### **3 GLOBAL BY COMPANY**

3.1 Global Stacked CMOS Image Sensor Breakdown Data by Company

3.1.1 Global Stacked CMOS Image Sensor Annual Sales by Company (2021-2026)

3.1.2 Global Stacked CMOS Image Sensor Sales Market Share by Company (2021-2026)

3.2 Global Stacked CMOS Image Sensor Annual Revenue by Company (2021-2026)

3.2.1 Global Stacked CMOS Image Sensor Revenue by Company (2021-2026)

3.2.2 Global Stacked CMOS Image Sensor Revenue Market Share by Company (2021-2026)

3.3 Global Stacked CMOS Image Sensor Sale Price by Company

3.4 Key Manufacturers Stacked CMOS Image Sensor Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Stacked CMOS Image Sensor Product Location Distribution

- 3.4.2 Players Stacked CMOS Image Sensor Products Offered
- 3.5 Market Concentration Rate Analysis
  - 3.5.1 Competition Landscape Analysis
  - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

## **4 WORLD HISTORIC REVIEW FOR STACKED CMOS IMAGE SENSOR BY GEOGRAPHIC REGION**

- 4.1 World Historic Stacked CMOS Image Sensor Market Size by Geographic Region (2021-2026)
  - 4.1.1 Global Stacked CMOS Image Sensor Annual Sales by Geographic Region (2021-2026)
  - 4.1.2 Global Stacked CMOS Image Sensor Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Stacked CMOS Image Sensor Market Size by Country/Region (2021-2026)
  - 4.2.1 Global Stacked CMOS Image Sensor Annual Sales by Country/Region (2021-2026)
  - 4.2.2 Global Stacked CMOS Image Sensor Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Stacked CMOS Image Sensor Sales Growth
- 4.4 APAC Stacked CMOS Image Sensor Sales Growth
- 4.5 Europe Stacked CMOS Image Sensor Sales Growth
- 4.6 Middle East & Africa Stacked CMOS Image Sensor Sales Growth

## **5 AMERICAS**

- 5.1 Americas Stacked CMOS Image Sensor Sales by Country
  - 5.1.1 Americas Stacked CMOS Image Sensor Sales by Country (2021-2026)
  - 5.1.2 Americas Stacked CMOS Image Sensor Revenue by Country (2021-2026)
- 5.2 Americas Stacked CMOS Image Sensor Sales by Type (2021-2026)
- 5.3 Americas Stacked CMOS Image Sensor Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

## **6 APAC**

### 6.1 APAC Stacked CMOS Image Sensor Sales by Region

6.1.1 APAC Stacked CMOS Image Sensor Sales by Region (2021-2026)

6.1.2 APAC Stacked CMOS Image Sensor Revenue by Region (2021-2026)

### 6.2 APAC Stacked CMOS Image Sensor Sales by Type (2021-2026)

### 6.3 APAC Stacked CMOS Image Sensor Sales by Application (2021-2026)

#### 6.4 China

#### 6.5 Japan

#### 6.6 South Korea

#### 6.7 Southeast Asia

#### 6.8 India

#### 6.9 Australia

#### 6.10 China Taiwan

## **7 EUROPE**

### 7.1 Europe Stacked CMOS Image Sensor by Country

7.1.1 Europe Stacked CMOS Image Sensor Sales by Country (2021-2026)

7.1.2 Europe Stacked CMOS Image Sensor Revenue by Country (2021-2026)

### 7.2 Europe Stacked CMOS Image Sensor Sales by Type (2021-2026)

### 7.3 Europe Stacked CMOS Image Sensor Sales by Application (2021-2026)

#### 7.4 Germany

#### 7.5 France

#### 7.6 UK

#### 7.7 Italy

#### 7.8 Russia

## **8 MIDDLE EAST & AFRICA**

### 8.1 Middle East & Africa Stacked CMOS Image Sensor by Country

8.1.1 Middle East & Africa Stacked CMOS Image Sensor Sales by Country (2021-2026)

8.1.2 Middle East & Africa Stacked CMOS Image Sensor Revenue by Country (2021-2026)

### 8.2 Middle East & Africa Stacked CMOS Image Sensor Sales by Type (2021-2026)

8.3 Middle East & Africa Stacked CMOS Image Sensor Sales by Application (2021-2026)

#### 8.4 Egypt

- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

## **9 MARKET DRIVERS, CHALLENGES AND TRENDS**

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

## **10 MANUFACTURING COST STRUCTURE ANALYSIS**

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Stacked CMOS Image Sensor
- 10.3 Manufacturing Process Analysis of Stacked CMOS Image Sensor
- 10.4 Industry Chain Structure of Stacked CMOS Image Sensor

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

- 11.1 Sales Channel
  - 11.1.1 Direct Channels
  - 11.1.2 Indirect Channels
- 11.2 Stacked CMOS Image Sensor Distributors
- 11.3 Stacked CMOS Image Sensor Customer

## **12 WORLD FORECAST REVIEW FOR STACKED CMOS IMAGE SENSOR BY GEOGRAPHIC REGION**

- 12.1 Global Stacked CMOS Image Sensor Market Size Forecast by Region
  - 12.1.1 Global Stacked CMOS Image Sensor Forecast by Region (2027-2032)
  - 12.1.2 Global Stacked CMOS Image Sensor Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Stacked CMOS Image Sensor Forecast by Type (2027-2032)
- 12.7 Global Stacked CMOS Image Sensor Forecast by Application (2027-2032)

## 13 KEY PLAYERS ANALYSIS

### 13.1 SONY

13.1.1 SONY Company Information

13.1.2 SONY Stacked CMOS Image Sensor Product Portfolios and Specifications

13.1.3 SONY Stacked CMOS Image Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 SONY Main Business Overview

13.1.5 SONY Latest Developments

### 13.2 Samsung

13.2.1 Samsung Company Information

13.2.2 Samsung Stacked CMOS Image Sensor Product Portfolios and Specifications

13.2.3 Samsung Stacked CMOS Image Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Samsung Main Business Overview

13.2.5 Samsung Latest Developments

### 13.3 OmniVision

13.3.1 OmniVision Company Information

13.3.2 OmniVision Stacked CMOS Image Sensor Product Portfolios and Specifications

13.3.3 OmniVision Stacked CMOS Image Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 OmniVision Main Business Overview

13.3.5 OmniVision Latest Developments

### 13.4 STMicroelectronics

13.4.1 STMicroelectronics Company Information

13.4.2 STMicroelectronics Stacked CMOS Image Sensor Product Portfolios and Specifications

13.4.3 STMicroelectronics Stacked CMOS Image Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 STMicroelectronics Main Business Overview

13.4.5 STMicroelectronics Latest Developments

### 13.5 On Semi

13.5.1 On Semi Company Information

13.5.2 On Semi Stacked CMOS Image Sensor Product Portfolios and Specifications

13.5.3 On Semi Stacked CMOS Image Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 On Semi Main Business Overview

13.5.5 On Semi Latest Developments

## 13.6 GalaxyCore

### 13.6.1 GalaxyCore Company Information

### 13.6.2 GalaxyCore Stacked CMOS Image Sensor Product Portfolios and Specifications

### 13.6.3 GalaxyCore Stacked CMOS Image Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

### 13.6.4 GalaxyCore Main Business Overview

### 13.6.5 GalaxyCore Latest Developments

## 13.7 SOI

### 13.7.1 SOI Company Information

### 13.7.2 SOI Stacked CMOS Image Sensor Product Portfolios and Specifications

### 13.7.3 SOI Stacked CMOS Image Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

### 13.7.4 SOI Main Business Overview

### 13.7.5 SOI Latest Developments

## 13.8 Smartsens Technology

### 13.8.1 Smartsens Technology Company Information

### 13.8.2 Smartsens Technology Stacked CMOS Image Sensor Product Portfolios and Specifications

### 13.8.3 Smartsens Technology Stacked CMOS Image Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

### 13.8.4 Smartsens Technology Main Business Overview

### 13.8.5 Smartsens Technology Latest Developments

## 13.9 Canon

### 13.9.1 Canon Company Information

### 13.9.2 Canon Stacked CMOS Image Sensor Product Portfolios and Specifications

### 13.9.3 Canon Stacked CMOS Image Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

### 13.9.4 Canon Main Business Overview

### 13.9.5 Canon Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

Table 1. Stacked CMOS Image Sensor Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Stacked CMOS Image Sensor Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of 12MP

Table 4. Major Players of 26MP

Table 5. Major Players of Others

Table 6. Global Stacked CMOS Image Sensor Sales by Type (2021-2026) & (Million Units)

Table 7. Global Stacked CMOS Image Sensor Sales Market Share by Type (2021-2026)

Table 8. Global Stacked CMOS Image Sensor Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Stacked CMOS Image Sensor Revenue Market Share by Type (2021-2026)

Table 10. Global Stacked CMOS Image Sensor Sale Price by Type (2021-2026) & (US\$/Unit)

Table 11. Major Players of 2?Stack CIS

Table 12. Major Players of 3?Stack CIS

Table 13. Major Players of Multi?Stack CIS (?4 layers)

Table 14. Global Stacked CMOS Image Sensor Sales by Stacking Layer Count (2021-2026) & (Million Units)

Table 15. Global Stacked CMOS Image Sensor Sales Market Share by Stacking Layer Count (2021-2026)

Table 16. Global Stacked CMOS Image Sensor Revenue by Stacking Layer Count (2021-2026) & (\$ million)

Table 17. Global Stacked CMOS Image Sensor Revenue Market Share by Stacking Layer Count (2021-2026)

Table 18. Global Stacked CMOS Image Sensor Sale Price by Stacking Layer Count (2021-2026) & (US\$/Unit)

Table 19. Major Players of Micro?bump Bonding

Table 20. Major Players of Cu?Cu Hybrid Bonding

Table 21. Major Players of Through?Silicon Vias (TSV) Bonding

Table 22. Global Stacked CMOS Image Sensor Sales by Bonding Technology (2021-2026) & (Million Units)

- Table 23. Global Stacked CMOS Image Sensor Sales Market Share by Bonding Technology (2021-2026)
- Table 24. Global Stacked CMOS Image Sensor Revenue by Bonding Technology (2021-2026) & (\$ million)
- Table 25. Global Stacked CMOS Image Sensor Revenue Market Share by Bonding Technology (2021-2026)
- Table 26. Global Stacked CMOS Image Sensor Sale Price by Bonding Technology (2021-2026) & (US\$/Unit)
- Table 27. Global Stacked CMOS Image Sensor Sale by Application (2021-2026) & (Million Units)
- Table 28. Global Stacked CMOS Image Sensor Sale Market Share by Application (2021-2026)
- Table 29. Global Stacked CMOS Image Sensor Revenue by Application (2021-2026) & (\$ million)
- Table 30. Global Stacked CMOS Image Sensor Revenue Market Share by Application (2021-2026)
- Table 31. Global Stacked CMOS Image Sensor Sale Price by Application (2021-2026) & (US\$/Unit)
- Table 32. Global Stacked CMOS Image Sensor Sales by Company (2021-2026) & (Million Units)
- Table 33. Global Stacked CMOS Image Sensor Sales Market Share by Company (2021-2026)
- Table 34. Global Stacked CMOS Image Sensor Revenue by Company (2021-2026) & (\$ millions)
- Table 35. Global Stacked CMOS Image Sensor Revenue Market Share by Company (2021-2026)
- Table 36. Global Stacked CMOS Image Sensor Sale Price by Company (2021-2026) & (US\$/Unit)
- Table 37. Key Manufacturers Stacked CMOS Image Sensor Producing Area Distribution and Sales Area
- Table 38. Players Stacked CMOS Image Sensor Products Offered
- Table 39. Stacked CMOS Image Sensor Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- Table 40. New Products and Potential Entrants
- Table 41. Market M&A Activity & Strategy
- Table 42. Global Stacked CMOS Image Sensor Sales by Geographic Region (2021-2026) & (Million Units)
- Table 43. Global Stacked CMOS Image Sensor Sales Market Share Geographic Region (2021-2026)

Table 44. Global Stacked CMOS Image Sensor Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 45. Global Stacked CMOS Image Sensor Revenue Market Share by Geographic Region (2021-2026)

Table 46. Global Stacked CMOS Image Sensor Sales by Country/Region (2021-2026) & (Million Units)

Table 47. Global Stacked CMOS Image Sensor Sales Market Share by Country/Region (2021-2026)

Table 48. Global Stacked CMOS Image Sensor Revenue by Country/Region (2021-2026) & (\$ millions)

Table 49. Global Stacked CMOS Image Sensor Revenue Market Share by Country/Region (2021-2026)

Table 50. Americas Stacked CMOS Image Sensor Sales by Country (2021-2026) & (Million Units)

Table 51. Americas Stacked CMOS Image Sensor Sales Market Share by Country (2021-2026)

Table 52. Americas Stacked CMOS Image Sensor Revenue by Country (2021-2026) & (\$ millions)

Table 53. Americas Stacked CMOS Image Sensor Sales by Type (2021-2026) & (Million Units)

Table 54. Americas Stacked CMOS Image Sensor Sales by Application (2021-2026) & (Million Units)

Table 55. APAC Stacked CMOS Image Sensor Sales by Region (2021-2026) & (Million Units)

Table 56. APAC Stacked CMOS Image Sensor Sales Market Share by Region (2021-2026)

Table 57. APAC Stacked CMOS Image Sensor Revenue by Region (2021-2026) & (\$ millions)

Table 58. APAC Stacked CMOS Image Sensor Sales by Type (2021-2026) & (Million Units)

Table 59. APAC Stacked CMOS Image Sensor Sales by Application (2021-2026) & (Million Units)

Table 60. Europe Stacked CMOS Image Sensor Sales by Country (2021-2026) & (Million Units)

Table 61. Europe Stacked CMOS Image Sensor Revenue by Country (2021-2026) & (\$ millions)

Table 62. Europe Stacked CMOS Image Sensor Sales by Type (2021-2026) & (Million Units)

Table 63. Europe Stacked CMOS Image Sensor Sales by Application (2021-2026) &

(Million Units)

Table 64. Middle East & Africa Stacked CMOS Image Sensor Sales by Country (2021-2026) & (Million Units)

Table 65. Middle East & Africa Stacked CMOS Image Sensor Revenue Market Share by Country (2021-2026)

Table 66. Middle East & Africa Stacked CMOS Image Sensor Sales by Type (2021-2026) & (Million Units)

Table 67. Middle East & Africa Stacked CMOS Image Sensor Sales by Application (2021-2026) & (Million Units)

Table 68. Key Market Drivers & Growth Opportunities of Stacked CMOS Image Sensor

Table 69. Key Market Challenges & Risks of Stacked CMOS Image Sensor

Table 70. Key Industry Trends of Stacked CMOS Image Sensor

Table 71. Stacked CMOS Image Sensor Raw Material

Table 72. Key Suppliers of Raw Materials

Table 73. Stacked CMOS Image Sensor Distributors List

Table 74. Stacked CMOS Image Sensor Customer List

Table 75. Global Stacked CMOS Image Sensor Sales Forecast by Region (2027-2032) & (Million Units)

Table 76. Global Stacked CMOS Image Sensor Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 77. Americas Stacked CMOS Image Sensor Sales Forecast by Country (2027-2032) & (Million Units)

Table 78. Americas Stacked CMOS Image Sensor Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 79. APAC Stacked CMOS Image Sensor Sales Forecast by Region (2027-2032) & (Million Units)

Table 80. APAC Stacked CMOS Image Sensor Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 81. Europe Stacked CMOS Image Sensor Sales Forecast by Country (2027-2032) & (Million Units)

Table 82. Europe Stacked CMOS Image Sensor Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Middle East & Africa Stacked CMOS Image Sensor Sales Forecast by Country (2027-2032) & (Million Units)

Table 84. Middle East & Africa Stacked CMOS Image Sensor Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 85. Global Stacked CMOS Image Sensor Sales Forecast by Type (2027-2032) & (Million Units)

Table 86. Global Stacked CMOS Image Sensor Revenue Forecast by Type

(2027-2032) & (\$ millions)

Table 87. Global Stacked CMOS Image Sensor Sales Forecast by Application

(2027-2032) & (Million Units)

Table 88. Global Stacked CMOS Image Sensor Revenue Forecast by Application

(2027-2032) & (\$ millions)

Table 89. SONY Basic Information, Stacked CMOS Image Sensor Manufacturing Base, Sales Area and Its Competitors

Table 90. SONY Stacked CMOS Image Sensor Product Portfolios and Specifications

Table 91. SONY Stacked CMOS Image Sensor Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 92. SONY Main Business

Table 93. SONY Latest Developments

Table 94. Samsung Basic Information, Stacked CMOS Image Sensor Manufacturing Base, Sales Area and Its Competitors

Table 95. Samsung Stacked CMOS Image Sensor Product Portfolios and Specifications

Table 96. Samsung Stacked CMOS Image Sensor Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 97. Samsung Main Business

Table 98. Samsung Latest Developments

Table 99. OmniVision Basic Information, Stacked CMOS Image Sensor Manufacturing Base, Sales Area and Its Competitors

Table 100. OmniVision Stacked CMOS Image Sensor Product Portfolios and Specifications

Table 101. OmniVision Stacked CMOS Image Sensor Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 102. OmniVision Main Business

Table 103. OmniVision Latest Developments

Table 104. STMicroelectronics Basic Information, Stacked CMOS Image Sensor Manufacturing Base, Sales Area and Its Competitors

Table 105. STMicroelectronics Stacked CMOS Image Sensor Product Portfolios and Specifications

Table 106. STMicroelectronics Stacked CMOS Image Sensor Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 107. STMicroelectronics Main Business

Table 108. STMicroelectronics Latest Developments

Table 109. On Semi Basic Information, Stacked CMOS Image Sensor Manufacturing Base, Sales Area and Its Competitors

Table 110. On Semi Stacked CMOS Image Sensor Product Portfolios and Specifications

Table 111. On Semi Stacked CMOS Image Sensor Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 112. On Semi Main Business

Table 113. On Semi Latest Developments

Table 114. GalaxyCore Basic Information, Stacked CMOS Image Sensor Manufacturing Base, Sales Area and Its Competitors

Table 115. GalaxyCore Stacked CMOS Image Sensor Product Portfolios and Specifications

Table 116. GalaxyCore Stacked CMOS Image Sensor Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 117. GalaxyCore Main Business

Table 118. GalaxyCore Latest Developments

Table 119. SOI Basic Information, Stacked CMOS Image Sensor Manufacturing Base, Sales Area and Its Competitors

Table 120. SOI Stacked CMOS Image Sensor Product Portfolios and Specifications

Table 121. SOI Stacked CMOS Image Sensor Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 122. SOI Main Business

Table 123. SOI Latest Developments

Table 124. Smartsens Technology Basic Information, Stacked CMOS Image Sensor Manufacturing Base, Sales Area and Its Competitors

Table 125. Smartsens Technology Stacked CMOS Image Sensor Product Portfolios and Specifications

Table 126. Smartsens Technology Stacked CMOS Image Sensor Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 127. Smartsens Technology Main Business

Table 128. Smartsens Technology Latest Developments

Table 129. Canon Basic Information, Stacked CMOS Image Sensor Manufacturing Base, Sales Area and Its Competitors

Table 130. Canon Stacked CMOS Image Sensor Product Portfolios and Specifications

Table 131. Canon Stacked CMOS Image Sensor Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 132. Canon Main Business

Table 133. Canon Latest Developments

## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of Stacked CMOS Image Sensor
- Figure 2. Stacked CMOS Image Sensor Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Stacked CMOS Image Sensor Sales Growth Rate 2021-2032 (Million Units)
- Figure 7. Global Stacked CMOS Image Sensor Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Stacked CMOS Image Sensor Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Stacked CMOS Image Sensor Sales Market Share by Country/Region (2025)
- Figure 10. Stacked CMOS Image Sensor Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of 12MP
- Figure 12. Product Picture of 26MP
- Figure 13. Product Picture of Others
- Figure 14. Global Stacked CMOS Image Sensor Sales Market Share by Type in 2026
- Figure 15. Global Stacked CMOS Image Sensor Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of 2?Stack CIS
- Figure 17. Product Picture of 3?Stack CIS
- Figure 18. Product Picture of Multi?Stack CIS (?4 layers)
- Figure 19. Global Stacked CMOS Image Sensor Sales Market Share by Stacking Layer Count in 2026
- Figure 20. Global Stacked CMOS Image Sensor Revenue Market Share by Stacking Layer Count (2021-2026)
- Figure 21. Product Picture of Micro?bump Bonding
- Figure 22. Product Picture of Cu?Cu Hybrid Bonding
- Figure 23. Product Picture of Through?Silicon Vias (TSV) Bonding
- Figure 24. Global Stacked CMOS Image Sensor Sales Market Share by Bonding Technology in 2026
- Figure 25. Global Stacked CMOS Image Sensor Revenue Market Share by Bonding Technology (2021-2026)
- Figure 26. Stacked CMOS Image Sensor Consumed in Mobile Phone

Figure 27. Global Stacked CMOS Image Sensor Market: Mobile Phone (2021-2026) & (Million Units)

Figure 28. Stacked CMOS Image Sensor Consumed in Automobile

Figure 29. Global Stacked CMOS Image Sensor Market: Automobile (2021-2026) & (Million Units)

Figure 30. Stacked CMOS Image Sensor Consumed in Others

Figure 31. Global Stacked CMOS Image Sensor Market: Others (2021-2026) & (Million Units)

Figure 32. Global Stacked CMOS Image Sensor Sale Market Share by Application (2025)

Figure 33. Global Stacked CMOS Image Sensor Revenue Market Share by Application in 2026

Figure 34. Stacked CMOS Image Sensor Sales by Company in 2026 (Million Units)

Figure 35. Global Stacked CMOS Image Sensor Sales Market Share by Company in 2026

Figure 36. Stacked CMOS Image Sensor Revenue by Company in 2026 (\$ millions)

Figure 37. Global Stacked CMOS Image Sensor Revenue Market Share by Company in 2026

Figure 38. Global Stacked CMOS Image Sensor Sales Market Share by Geographic Region (2021-2026)

Figure 39. Global Stacked CMOS Image Sensor Revenue Market Share by Geographic Region in 2026

Figure 40. Americas Stacked CMOS Image Sensor Sales 2021-2026 (Million Units)

Figure 41. Americas Stacked CMOS Image Sensor Revenue 2021-2026 (\$ millions)

Figure 42. APAC Stacked CMOS Image Sensor Sales 2021-2026 (Million Units)

Figure 43. APAC Stacked CMOS Image Sensor Revenue 2021-2026 (\$ millions)

Figure 44. Europe Stacked CMOS Image Sensor Sales 2021-2026 (Million Units)

Figure 45. Europe Stacked CMOS Image Sensor Revenue 2021-2026 (\$ millions)

Figure 46. Middle East & Africa Stacked CMOS Image Sensor Sales 2021-2026 (Million Units)

Figure 47. Middle East & Africa Stacked CMOS Image Sensor Revenue 2021-2026 (\$ millions)

Figure 48. Americas Stacked CMOS Image Sensor Sales Market Share by Country in 2026

Figure 49. Americas Stacked CMOS Image Sensor Revenue Market Share by Country (2021-2026)

Figure 50. Americas Stacked CMOS Image Sensor Sales Market Share by Type (2021-2026)

Figure 51. Americas Stacked CMOS Image Sensor Sales Market Share by Application

(2021-2026)

Figure 52. United States Stacked CMOS Image Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 53. Canada Stacked CMOS Image Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 54. Mexico Stacked CMOS Image Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 55. Brazil Stacked CMOS Image Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 56. APAC Stacked CMOS Image Sensor Sales Market Share by Region in 2026

Figure 57. APAC Stacked CMOS Image Sensor Revenue Market Share by Region (2021-2026)

Figure 58. APAC Stacked CMOS Image Sensor Sales Market Share by Type (2021-2026)

Figure 59. APAC Stacked CMOS Image Sensor Sales Market Share by Application (2021-2026)

Figure 60. China Stacked CMOS Image Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 61. Japan Stacked CMOS Image Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 62. South Korea Stacked CMOS Image Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 63. Southeast Asia Stacked CMOS Image Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 64. India Stacked CMOS Image Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 65. Australia Stacked CMOS Image Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 66. China Taiwan Stacked CMOS Image Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 67. Europe Stacked CMOS Image Sensor Sales Market Share by Country in 2026

Figure 68. Europe Stacked CMOS Image Sensor Revenue Market Share by Country (2021-2026)

Figure 69. Europe Stacked CMOS Image Sensor Sales Market Share by Type (2021-2026)

Figure 70. Europe Stacked CMOS Image Sensor Sales Market Share by Application (2021-2026)

Figure 71. Germany Stacked CMOS Image Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 72. France Stacked CMOS Image Sensor Revenue Growth 2021-2026 (\$

millions)

Figure 73. UK Stacked CMOS Image Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 74. Italy Stacked CMOS Image Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 75. Russia Stacked CMOS Image Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 76. Middle East & Africa Stacked CMOS Image Sensor Sales Market Share by Country (2021-2026)

Figure 77. Middle East & Africa Stacked CMOS Image Sensor Sales Market Share by Type (2021-2026)

Figure 78. Middle East & Africa Stacked CMOS Image Sensor Sales Market Share by Application (2021-2026)

Figure 79. Egypt Stacked CMOS Image Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 80. South Africa Stacked CMOS Image Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 81. Israel Stacked CMOS Image Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 82. Turkey Stacked CMOS Image Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 83. GCC Countries Stacked CMOS Image Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 84. Manufacturing Cost Structure Analysis of Stacked CMOS Image Sensor in 2026

Figure 85. Manufacturing Process Analysis of Stacked CMOS Image Sensor

Figure 86. Industry Chain Structure of Stacked CMOS Image Sensor

Figure 87. Channels of Distribution

Figure 88. Global Stacked CMOS Image Sensor Sales Market Forecast by Region (2027-2032)

Figure 89. Global Stacked CMOS Image Sensor Revenue Market Share Forecast by Region (2027-2032)

Figure 90. Global Stacked CMOS Image Sensor Sales Market Share Forecast by Type (2027-2032)

Figure 91. Global Stacked CMOS Image Sensor Revenue Market Share Forecast by Type (2027-2032)

Figure 92. Global Stacked CMOS Image Sensor Sales Market Share Forecast by Application (2027-2032)

Figure 93. Global Stacked CMOS Image Sensor Revenue Market Share Forecast by Application (2027-2032)

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