

# Global CMOS Image Sensor Competitive Landscape Professional Research Report 2025

<https://marketpublishers.com/r/C3BEBEE91594EN.html>

Date: June 2025

Pages: 165

Price: US\$ 3,500.00 (Single User License)

ID: C3BEBEE91594EN

## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global CMOS Image Sensor market size will reach 25,302 Million USD in 2025 and is projected to reach 50,929 Million USD by 2032, with a CAGR of 10.51% (2025-2032). Notably, the China CMOS Image Sensor market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

A CMOS image sensor is a type of image-capturing device used in digital cameras, smartphones, and various other imaging applications. It employs Complementary Metal-Oxide-Semiconductor (CMOS) technology to convert light into electrical signals, enabling the sensor to capture digital images. CMOS image sensors are widely favored for their low power consumption, cost-effectiveness, and ability to integrate other circuitry on the same chip, making them ideal for compact and energy-efficient devices. These sensors consist of an array of individual photosensitive pixels, each capable of converting light into electrical charges. The amount of charge generated by each pixel corresponds to the intensity of light falling on it. These electrical charges are then read and processed by the sensor's circuitry to form a digital image. With continuous advancements in CMOS technology, CMOS image sensors have become the primary choice for most consumer and professional imaging devices due to their high image quality, speed, and versatility.

The major global manufacturers of CMOS Image Sensor include Sony, Samsung,

OmniVision, Canon, On Semi (Aptina), Toshiba, ST, Nikon, PixelPlus, Pixart, SiliconFile, GalaxyCore, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of CMOS Image Sensor. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global CMOS Image Sensor market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the CMOS Image Sensor market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of CMOS Image Sensor industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of CMOS Image Sensor Include:

Sony

Samsung

OmniVision

Canon

On Semi (Aptina)

Toshiba

ST

Nikon

PixelPlus

Pixart

SiliconFile

GalaxyCore

CMOS Image Sensor Product Segment Include:

Front-illuminated (FI) CMOS Sensor

Backside-illuminated (BSI) CMOS Sensor

CMOS Image Sensor Product Application Include:

Industrial/Space/Defence

Security

Medical

Automotive

Computing

Consumer

Mobile

## **Chapter Scope**

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