

CMOS Image Sensor Market Size, Share & Trends Analysis Report By Spectrum (Visible, Non-visible), By Image Processing Technology (2D, 3D), By Resolution, By End-use, By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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CMOS Image Sensor Market Growth & Trends

The global CMOS image sensor market size is expected to reach USD 49.12 billion by 2030, registering a CAGR of 7.7% from 2025 to 2030, according to a new report by Grand View Research, Inc. Increasing demand for handheld equipment such as tablets and smartphones has initiated the development of smart sensing approaches with remote diagnostic and monitoring capability. The industry has observed tremendous growth over the past few years owing to the growth of its application industries, particularly medical and automotive. In addition, technological innovations leading to the evolution of refined sensing technology are expected to drive growth.

Key players include OmniVision Technologies, Sony Corporation, Canon Inc., and Samsung Electronics. Sony Corporation and Samsung Electronics are projected to dominate the CMOS image sensors market in the near future. Companies are constantly engaging in research & development to introduce innovative products in the market. Samsung Electronics Co. Ltd. has announced its new 8-megapixel R-W-B sensing device based on ISOCELL and NFC integrated circuit technology with advanced frequency performance. In March 2015, OmniVision Technologies Inc. launched the OV8865, a CMOS image sensor positioned on OmniBSI-2 pixel planning. It is utilized in high speed photography with low power consumption application.

Samsung Electronics Co. Ltd. introduced a 280-megapixel APC-C image sensor, which employs advanced 65-nanometer and illuminated pixel technology to implement energy-efficiency and better picture aspect.

CMOS Image Sensor Market Report Highlights

The visible segment dominated the market with a share of 69.1% in 2024. The high demand for visible light imaging in smartphones and digital cameras significantly contributes to this dominance.

The 3D segment dominated the market, with the largest revenue share in 2024 due to the applications of augmented reality (AR) and virtual reality (VR) technologies. The growing interest in 3D imaging for gaming, healthcare, and robotics has propelled this segment's growth.

The above 16 MP segment dominated the market with the largest revenue share in 2024, driven by consumer demand for high-resolution smartphone cameras and professional photography equipment.

The consumer electronics segment dominated the market with the largest revenue share in 2024 due to the increasing integration of advanced imaging technologies in smartphones, tablets, and other devices.

Asia Pacific CMOS image sensor market dominated the global market with a revenue share of 44.6% in 2024, attributed to rapid technological advancements and increasing production capacities among key manufacturers.

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