

# Organic CMOS Image Sensor Market to Witness an Outstanding Growth By 2028

*Organic CMOS Image Sensor Market  
Expected to Reach \$2.87 Billion by 2028*

WILMINGTON, DE, UNITED STATES, August 8, 2025 /EINPresswire.com/ -- Allied Market Research, titled, "[Organic CMOS Image Sensor Market](#)" by Image Processing, Array Type, Application, and Industry Vertical: Global Opportunity Analysis and Industry Forecast, 2021-2028", the global organic CMOS image sensor industry size was valued at \$1.19 billion in 2020, and is projected to reach \$2.87 billion

by 2028, registering a CAGR of 12.4%. North America is expected to be the leading contributor to the global market during the forecast period, followed by Europe and Asia-Pacific. The organic CMOS image sensor market in Asia-Pacific is expected to grow at the highest rate during the forecast period, owing to the enormous development of electronics products, such as

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The organic CMOS image sensor market is set to grow, driven by high image quality, color contrast, & new tech, though battery drain may hinder adoption.”

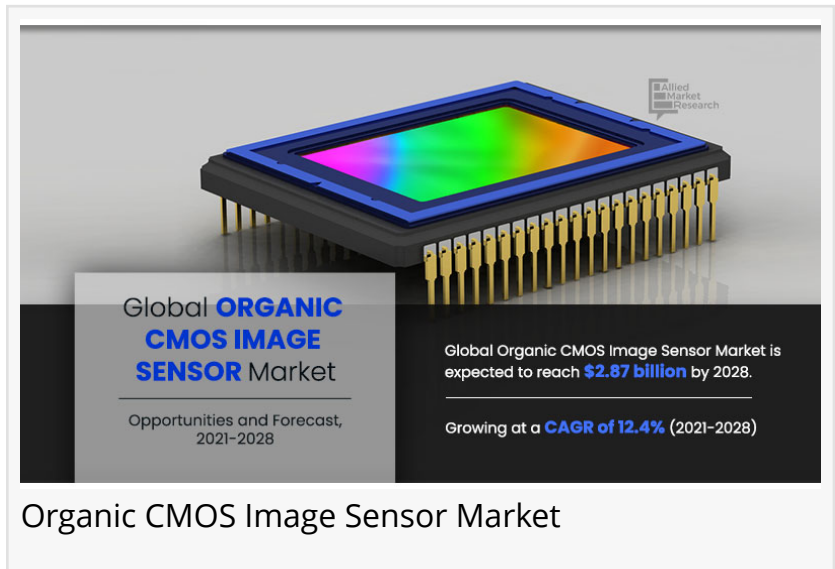
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smartphones and camera technologies, in developing economies. Moreover, economically developed nations tend to witness high penetration of organic CMOS image sensor technology in consumer electronics, medical & life sciences, security & surveillance, and automotive segments, which is projected to significantly contribute to the growth of the market.

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The organic CMOS image sensors market holds high potential and experiences new technology innovations & upgrades. Companies in the image sensor market work toward technology improvement for creating high-resolution images. This leads to create organic CMOS image sensors, which can support 8K resolution without image distortion.



The global organic CMOS image sensor market share is anticipated to witness significant growth during the forecast period. Factors, such as high image quality and better color contrast, provided by organic CMOS image sensors, drive the global market. In addition, the introduction of technologies, such as global shutter technology, is expected to fuel the adoption of organic CMOS image sensors. However, organic sensor drains batteries quickly as compared to the available image sensors, which may hinder the [organic CMOS image sensor market growth](#). Conversely, high reliability for broader applications and faster & cheaper processing methods are anticipated to drive the growth of the market in the future.

Moreover, developing nations tend to witness high penetration of organic CMOS image sensor products, especially in consumer electronics segments. The surge in the introduction of technologies, including 8K resolution and global shutter technology across the globe, boosts the organic CMOS image sensor market growth.

The global organic CMOS image sensor market share is segmented based on image processing, array type, application, industry vertical, and region. By image processing, the market is bifurcated into 2D sensors and 3D sensors. By array type, the market is classified into linear image sensors and area image sensors. Based on application, the market is divided into 3D imaging, video, machine vision, biometrics, and others. Depending on the industry vertical, the market is segregated into consumer electronics, automotive, medical & life sciences, security & surveillance, robotics, and others.

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Competitive Analysis:

The Organic CMOS Image Sensor industry's key market players adopt various strategies such as product launch, product development, collaboration, partnership, and agreements to influence the market. It includes details about the key players in the market's strengths, product portfolio, market size, share analysis, operational results, and market positioning.

Some of the major key players in the global Organic CMOS Image Sensor Market include,

Fujifilm Holdings Corporation

Canon Inc.

Xenics nv

Samsung Electronics Co., Ltd.

Panasonic Corporation

Nikkola SAS

Sony Corporation

Siemens AG

Region-wise, the organic CMOS image sensor market trends have been analyzed across North America, Europe, Asia-Pacific, and LAMEA. North America contributed the maximum revenue in 2020. However, between 2020 and 2028, the organic CMOS image sensor industry in the Asia-Pacific is expected to grow at a faster rate as compared to other regions. This is attributed to an increase in demand from emerging economies such as India, China, Japan, and South Korea.

The arrival of COVID-19 has significantly affected the electronics and semiconductor sector. Business and manufacturing units across various countries were closed, owing to the increase in several COVID-19 cases, and are estimated to remain closed in 2021 as well. Furthermore, partial or complete lockdowns have disrupted the global supply chain, posing challenges for manufacturers to reach customers. The overall production process has been adversely affected. However, the growth of consumer electronics and medical & life sciences sectors is expected to boost the global organic CMOS image sensor market.

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### Key Findings Of The Study

- The consumer electronics segment is projected to be the major industry vertical over the forecast period, followed by Automotive. The rising demand for technologies, such as 8K resolution and global shutter technology, is anticipated to surge the product demand in the future.
- Asia-Pacific and North America collectively accounted for over 60% of the organic CMOS image sensor market share in 2020.
- India is anticipated to witness the highest growth rate during the forecast period.
- The U.S. was the major shareholder in the North America market, accounting for approximately 57% share in 2020.

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