

Global Global Shutter CMOS Image Sensor Market Growth 2026-2032

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Abstracts

The global Global Shutter CMOS Image Sensor market size is predicted to grow from US\$ 1213 million in 2025 to US\$ 2469 million in 2032; it is expected to grow at a CAGR of 10.9% from 2026 to 2032.

The basic principle of GS is that the sensor can scan the entire area of the image at the same time. In the GS sensor, use all pixels to capture the images at the same time. For example, the previous backhand (BSI) sensors are rolling shutter, so the 'jelly effect' will cause severe deformation when shooting high-speed movements, but sensors with global shutter can be used to allow the sensor to make the sensor on the sensor on the sensor. Single pixels capture light signals at the same time to effectively solve this problem. With the application of machine vision in industrial automation, drones, and smart home appliances, the CMOS image sensor ushered in a new wave of development. If the imaging was only required to be meticulous and colorful, now it is required to quickly capture (high frame rate), intangible changes (global shutter) and non-visible light imaging (near infrared enhancement technology). The introduction of GS is a major innovation. It makes the CMOS sensor exposure at the same time to extract the images of non-disturbed sports objects, which is of great significance for the field of machine vision.

With the continuous development of digital technology, image acquisition technology has made great progress. Compared with traditional CCD image sensors, CMOS image sensors have the advantages of small size, low power consumption, and high integration, and have been widely used in many fields. GS CMOS image sensor is one of them, the GS CMOS image sensor is a high-performance image sensor that can simultaneously record all pixel values on the entire sensor within one exposure time, avoiding motion blur that affects image quality.

CMOS image sensors can be divided into front-illuminated structure (FSI) and back-illuminated structure (BSI) according to the installation position of the photosensitive element. In the early stage of GS CMOS image sensors, the front-illuminated structure accounted for a relatively large proportion. After the fourth generation, the back-illuminated structure began to be used. It is projected that the BSI structure will become the mainstream type in the future, with its revenue share exceeding 50% by 2032.

The GS CMOS image sensor market is highly competitive, mainly occupied by companies such as Sony, ON Semiconductor, SmartSens Technology, Canon, and OmniVision. These companies compete for market share by continuously introducing new products, improving performance and reducing costs.

Among them, Sony is one of the largest manufacturers of CMOS image sensors in the world. Its GS CMOS image sensors are widely used in many fields such as consumer electronics, automobiles, and industrial vision. In 2025, its revenue share over 30% of the GS CMOS image sensor market. In addition, there are many potential entrants in the market. According to companies such as Samsung and GalaxyCore, they are currently developing global shutter technology.

At present, the market demand for GS CMOS image sensors continues to grow, and the application scenarios are becoming more and more extensive, which provides more development opportunities for enterprises. In the future, with the further innovation and development of technology, market competition will become more intense. Enterprises need to continue to carry out technological research and development and innovation, reduce manufacturing costs, and improve product performance and quality in order to gain a larger market share.

LP Information, Inc. (LPI) ' newest research report, the "Global Shutter CMOS Image Sensor Industry Forecast" looks at past sales and reviews total world Global Shutter CMOS Image Sensor sales in 2025, providing a comprehensive analysis by region and market sector of projected Global Shutter CMOS Image Sensor sales for 2026 through 2032. With Global Shutter 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 Global Shutter CMOS Image Sensor industry.

This Insight Report provides a comprehensive analysis of the global Global Shutter 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 Global Shutter 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 Global Shutter CMOS Image Sensor market.

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

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

Segmentation by Type:

Front Side Illuminated

Back Side Illuminated

Segmentation by Intra-pixel Charge Storage and Transfer Structure:

Global Shutter in Charge Domain

Global Shutter in Voltage Domain

Segmentation by Application:

Industrial

Automotive

Consumer Electronics

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

ON Semiconductor

SmartSens Technology

Canon

OmniVision

STMicroelectronics

ams OSRAM

Nikon

Gpixel Inc.

Teledyne Technologies

Pixart

Silicon Optronics

Key Questions Addressed in this Report

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

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

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

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

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

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