

# Global Global Shutter CMOS Image Sensor Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Global Shutter CMOS Image Sensor market size is expected to reach \$ 2508 million by 2032, rising at a market growth of 10.3% CAGR during the forecast period (2026-2032).

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 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.

This report studies the global Global Shutter CMOS Image Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Global Shutter CMOS Image Sensor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Global Shutter CMOS Image Sensor that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Global Shutter CMOS Image Sensor total production and demand, 2021-2032, (Million Units)

Global Global Shutter CMOS Image Sensor total production value, 2021-2032, (USD Million)

Global Global Shutter CMOS Image Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Global Shutter CMOS Image Sensor consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Global Shutter CMOS Image Sensor domestic production, consumption,

key domestic manufacturers and share

Global Global Shutter CMOS Image Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Global Shutter CMOS Image Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Global Shutter CMOS Image Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Global Shutter CMOS Image Sensor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Sony, ON Semiconductor, SmartSens Technology, Canon, OmniVision, STMicroelectronics, ams OSRAM, Nikon, Gpixel Inc., Teledyne Technologies, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Global Shutter CMOS Image Sensor market

#### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Global Shutter CMOS Image Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Global Shutter CMOS Image Sensor Market, Segmentation by Type:

Front Side Illuminated

Back Side Illuminated

Global Global Shutter CMOS Image Sensor Market, Segmentation by Intra-pixel Charge Storage and Transfer Structure:

Global Shutter in Charge Domain

Global Shutter in Voltage Domain

Global Global Shutter CMOS Image Sensor Market, Segmentation by Application:

Industrial

Automotive

Consumer Electronics

Others

**Companies Profiled:**

Sony

ON Semiconductor

SmartSens Technology

Canon

OmniVision

STMicroelectronics

ams OSRAM

Nikon

Gpixel Inc.

Teledyne Technologies

Pixart

Silicon Optonics

**Key Questions Answered:**

1. How big is the global Global Shutter CMOS Image Sensor market?
2. What is the demand of the global Global Shutter CMOS Image Sensor market?
3. What is the year over year growth of the global Global Shutter CMOS Image Sensor market?
4. What is the production and production value of the global Global Shutter CMOS Image Sensor market?
5. Who are the key producers in the global Global Shutter CMOS Image Sensor market?
6. What are the growth factors driving the market demand?

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