

# Global LED Flicker Suppression CMOS Image Sensor Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global LED Flicker Suppression CMOS Image Sensor market size is expected to reach \$ 1443 million by 2032, rising at a market growth of 4.1% CAGR during the forecast period (2026-2032).

In 2025, global LED Flicker Suppression CMOS Image Sensor production reached approximately 441 million Units, with an average global market price of around US\$ 2.4 per unit.

An LED Flicker Suppression (LFS)/LED Flicker Mitigation (LFM) CMOS Image Sensor is a specialized CMOS sensor designed to eliminate image artifacts caused by the high - frequency Pulse - Width Modulation (PWM) flicker of LED light sources, which are invisible to the human eye but disruptive to image capture systems, especially those with short exposure times, such as automotive ADAS cameras. It ensures stable, artifact - free imaging for critical applications like traffic signal recognition, industrial inspection, and smart city monitoring.

The CMOS image sensor industry chain presents a vertical hierarchical structure with clear division of labor, spanning from upstream core material and equipment supply, midstream sensor design, manufacturing and packaging, to downstream application terminal integration. The industry has strong technical barriers, high concentration of leading enterprises, and close collaborative links between upstream and downstream links. The upstream segment provides the essential materials, equipment and intellectual property (IP) required for CIS design and manufacturing, and is the foundation of the entire industry chain. The market is dominated by a small number of international enterprises. The midstream is the core value link of the industry chain, covering three key links: chip design, wafer fabrication, and packaging and testing. The industry is divided into two business models: IDM (Integrated Device Manufacturer) and Fabless + Foundry + OSAT. Downstream applications cover consumer electronics, automotive electronics, industrial detection, security monitoring, medical imaging and

other fields. The demand of different scenarios drives the iteration of CIS technology, and the B2B field has become the main growth engine in recent years. The iteration of downstream application demand (e.g., automotive high dynamic range, industrial global shutter) drives the R&D of midstream design and upstream material and equipment technologies, forming a positive feedback loop.

This report studies the global LED Flicker Suppression CMOS Image Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for LED Flicker Suppression 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 LED Flicker Suppression CMOS Image Sensor that contribute to its increasing demand across many markets.

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

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

Global LED Flicker Suppression CMOS Image Sensor total production value, 2021-2032, (USD Million)

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

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

U.S. VS China: LED Flicker Suppression CMOS Image Sensor domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global LED Flicker Suppression 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, Samsung, OmniVision, STMicroelectronics, On Semi, GalaxyCore, Smartsens Technology, 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 LED Flicker Suppression 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 LED Flicker Suppression CMOS Image Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global LED Flicker Suppression CMOS Image Sensor Market, Segmentation by Type:

Exposure Method: Rolling Shutter

Exposure Method: Global Shutter

Global LED Flicker Suppression CMOS Image Sensor Market, Segmentation by Pixel Structure:

Passive Pixel Sensor (PPS)

Active Pixel Sensor (APS)

Global LED Flicker Suppression CMOS Image Sensor Market, Segmentation by Pixel Size:

Small Pixel

Medium Pixel

Large Pixel

Global LED Flicker Suppression CMOS Image Sensor Market, Segmentation by Application:

Automotive

Industrial & Machine Vision

Others

**Companies Profiled:**

SONY

Samsung

OmniVision

STMicroelectronics

On Semi

GalaxyCore

Smartsens Technology

**Key Questions Answered:**

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

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