

Global Full-Frame CMOS Image Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Full-Frame CMOS Image Sensor market size is expected to reach \$ 503 million by 2032, rising at a market growth of 5.3% CAGR during the forecast period (2026-2032).

In 2025, global Full-Frame CMOS Image Sensor production reached approximately 1,374.3 K units, with an average global market price of around 245.8 USD/unit.

Full-Frame CMOS Image Sensor is a high-end image sensor with a photosensitive area equivalent to that of traditional 35mm film, serving as the core component for converting optical signals into electrical signals in imaging equipment. Compared with small-format sensors, it boasts a larger light-receiving area, which brings inherent advantages including higher light utilization efficiency, superior dynamic range, and better noise control, enabling the presentation of delicate image details, natural color gradation, and soft bokeh effects. Most mainstream products currently adopt back-illuminated (BSI) or stacked structures to further enhance quantum efficiency and data transmission speed, supporting high-resolution shooting, high-definition video recording, and high-frame-rate continuous shooting, and are widely applied in professional imaging fields with high requirements for image quality.

The demand for Full-Frame CMOS Image Sensors is driven by the continuous upgrading of flagship mirrorless cameras and professional video equipment in the consumer electronics sector, the expanding application of high-precision imaging in industrial measurement, medical diagnosis, and scientific research fields, as well as the growing demand for high-dynamic-range image capture in emerging scenarios such as automotive advanced driver assistance systems (ADAS). Business opportunities lie in developing high-pixel stacked sensors integrated with on-chip intelligent processing

functions to meet the needs of intelligent imaging, optimizing global shutter technology for industrial high-speed detection scenarios, launching cost-effective products to penetrate the mid-range market, seizing the localization replacement opportunity of high-end sensors, and exploring multi-spectral and anti-radiation versions to adapt to special application fields.

This report studies the global Full-Frame CMOS Image Sensor production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Full-Frame CMOS Image Sensor total production and demand, 2021-2032, (K Units)

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

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

Global Full-Frame CMOS Image Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Full-Frame CMOS Image Sensor domestic production, consumption, key domestic manufacturers and share

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

Global Full-Frame CMOS Image Sensor production by Structural Design, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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

This report profiles key players in the global Full-Frame 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, Canon, Gpixel Changchun Microelectronics Inc., 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 Full-Frame CMOS Image Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Structural Design, 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 Full-Frame CMOS Image Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Full-Frame CMOS Image Sensor Market, Segmentation by Structural Design:

Backside-Illuminated (BSI)

Stacked

Front-Illuminated (FI)

Global Full-Frame CMOS Image Sensor Market, Segmentation by Shutter Type:

Rolling Shutter

Global Shutter

Electronic Global Shutter

Global Full-Frame CMOS Image Sensor Market, Segmentation by Performance:

High Resolution

High ISO Low Noise

High Speed Continuous Shooting

Global Full-Frame CMOS Image Sensor Market, Segmentation by Application:

Professional Imaging

Medical Diagnosis

Industrial Measurement

Aerospace

Others

Companies Profiled:

Sony

Canon

Gpixel Changchun Microelectronics Inc.

Key Questions Answered:

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

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