

# Global Front-illuminated (FI) CMOS Sensor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Front-illuminated (FI) CMOS Sensor market size was valued at US\$ 3039 million in 2025 and is forecast to a readjusted size of US\$ 4308 million by 2032 with a CAGR of 5.1% during review period.

In 2025, global Front-illuminated (FI) CMOS Sensor production reached approximately 1,640.9 M units, with an average global market price of around 1,800 USD/K units.

Front-illuminated (FI) CMOS Sensor, also known as Front-side Illuminated (FSI) CMOS Sensor, is a classic type of image sensor that converts light signals into electrical signals for digital imaging. It adopts a 'top-down' structural design where light passes through microlenses and color filters sequentially, then penetrates the metal wiring and circuit layer on the front before reaching the underlying photodiodes—the core photosensitive component. As the foundational technology of CMOS sensors, it features simple manufacturing processes, high yield rates, and low production costs, though the front metal circuit layer may block and reflect part of the light, resulting in relatively limited light utilization (around 70%) and inferior low-light performance compared to back-illuminated (BSI) sensors. It is widely used in scenarios with moderate imaging requirements and cost sensitivity.

The demand for FI CMOS Sensors is driven by the steady growth of cost-sensitive application fields such as entry-level consumer electronics, IoT devices, and basic security monitoring, as well as the stable demand for global shutter architectures in industrial automation and machine vision. The medical field also contributes incremental demand for certified FI sensors that meet clinical standards. Business opportunities lie in optimizing manufacturing processes to enhance light sensitivity and reduce noise

while maintaining cost advantages, expanding applications in emerging low-power IoT and entry-level automotive imaging scenarios, leveraging its cost-effectiveness to occupy the mass-market share, and developing customized products for industrial machine vision that prioritize global shutter performance over extreme low-light capability.

This report is a detailed and comprehensive analysis for global Front-illuminated (FI) CMOS Sensor market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Pixel Size and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Front-illuminated (FI) CMOS Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/K Units), 2021-2032

Global Front-illuminated (FI) CMOS Sensor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/K Units), 2021-2032

Global Front-illuminated (FI) CMOS Sensor market size and forecasts, by Pixel Size and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/K Units), 2021-2032

Global Front-illuminated (FI) CMOS Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/K Units), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Front-illuminated (FI) CMOS Sensor

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Front-illuminated (FI) CMOS Sensor market based on the following parameters - company overview, sales quantity, revenue, price,

gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SONY, Samsung, OmniVision, STMicroelectronics, Onsemi, SK Hynix, GalaxyCore, Panasonic, SmartSens Technology, Canon, etc.

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

## **Market Segmentation**

Front-illuminated (FI) CMOS Sensor market is split by Pixel Size and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Pixel Size, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Pixel Size

Small Pixel (<1.0 $\mu$ m) FI CMOS Sensor

Medium Pixel (1.0 $\mu$ m-2.0 $\mu$ m) FI CMOS Sensor

Large Pixel (>2.0 $\mu$ m) FI CMOS Sensor

### Market segment by Shutter Type

Rolling Shutter FI CMOS Sensor

Global Shutter FI CMOS Sensor

### Market segment by Spectral Response Range

Visible Light FI CMOS Sensor

Near-Infrared (NIR) FI CMOS Sensor

Multi-Spectral FI CMOS Sensor

## Market segment by Application

Consumer Electronics

Industrial Automation

Security Monitoring

Medical Imaging

Others

## Major players covered

SONY

Samsung

OmniVision

STMicroelectronics

Onsemi

SK Hynix

GalaxyCore

Panasonic

SmartSens Technology

Canon

Silicon Optonics

Market segment by region, regional analysis covers  
North America (United States, Canada, and Mexico)  
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)  
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)  
South America (Brazil, Argentina, Colombia, and Rest of South America)  
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Front-illuminated (FI) CMOS Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Front-illuminated (FI) CMOS Sensor, with price, sales quantity, revenue, and global market share of Front-illuminated (FI) CMOS Sensor from 2021 to 2026.

Chapter 3, the Front-illuminated (FI) CMOS Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Front-illuminated (FI) CMOS Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Pixel Size and by Application, with sales market share and growth rate by Pixel Size, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Front-illuminated (FI) CMOS Sensor market forecast, by regions, by Pixel Size, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Front-illuminated (FI) CMOS Sensor.

Chapter 14 and 15, to describe Front-illuminated (FI) CMOS Sensor sales channel, distributors, customers, research findings and conclusion.

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