

Global Backside-illuminated (BSI) CMOS Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Backside-illuminated (BSI) CMOS Sensor market size is expected to reach \$ 13440 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

In 2025, global Backside-illuminated (BSI) CMOS Sensor production reached approximately 2,681.5 M units, with an average global market price of around 3,200 USD/K units.

Backside-illuminated (BSI) CMOS Sensor is an advanced image sensor optimized for light utilization, upgraded from front-illuminated (FI) technology. It reverses the traditional sensor structure, removing the metal wiring and circuit layer from the light-receiving side—light directly irradiates the back of the photodiode after passing through microlenses and color filters, eliminating light blocking and reflection caused by front-side circuits. This design significantly improves light sensitivity (up to 90%+ light utilization), enhances low-light imaging performance and signal-to-noise ratio, while supporting smaller pixel sizes without compromising image quality. It follows the same classification dimensions as FI sensors (by pixel size, shutter type, spectral response range) but with structural advantages that make it suitable for high-end imaging scenarios, though its manufacturing process is more complex and cost higher than FI sensors.

The demand for BSI CMOS Sensors is driven by the upgrading of high-end imaging scenarios across industries, such as flagship consumer electronics, professional security monitoring, and high-precision medical imaging, with small and medium pixel models dominating consumer markets and large pixel models in professional fields. The booming demand for automotive imaging (ADAS, in-cabin monitoring) and industrial

machine vision also boosts consumption of BSI sensors with global shutter and NIR capabilities. Business opportunities lie in optimizing small pixel ($1.0\mu\text{m}$) technology for flagship smartphones to balance resolution and low-light performance, developing large pixel (>2.0 μm) models for professional medical and security equipment, upgrading global/electronic global shutter BSI sensors for industrial automation, and expanding multi-spectral and NIR BSI solutions to meet emerging smart mobility and IoT high-end imaging needs, while reducing production costs through process iteration to penetrate mid-range markets.

This report studies the global Backside-illuminated (BSI) CMOS Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Backside-illuminated (BSI) CMOS 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 Backside-illuminated (BSI) CMOS Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Backside-illuminated (BSI) CMOS Sensor total production and demand, 2021-2032, (Million Units)

Global Backside-illuminated (BSI) CMOS Sensor total production value, 2021-2032, (USD Million)

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

Global Backside-illuminated (BSI) CMOS Sensor consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Backside-illuminated (BSI) CMOS Sensor domestic production, consumption, key domestic manufacturers and share

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

Global Backside-illuminated (BSI) CMOS Sensor production by Pixel Size, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Backside-illuminated (BSI) CMOS Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Backside-illuminated (BSI) CMOS 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, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Backside-illuminated (BSI) CMOS 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\$/K Units) by manufacturer, by Pixel Size, 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 Backside-illuminated (BSI) CMOS Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Backside-illuminated (BSI) CMOS Sensor Market, Segmentation by Pixel Size:

Small Pixel (<1.0µm) BSI CMOS Sensor

Medium Pixel (1.0µm-2.0µm) BSI CMOS Sensor

Large Pixel (>2.0µm) BSI CMOS Sensor

Global Backside-illuminated (BSI) CMOS Sensor Market, Segmentation by Shutter Type:

Rolling Shutter BSI CMOS Sensor

Global Shutter BSI CMOS Sensor

Global Backside-illuminated (BSI) CMOS Sensor Market, Segmentation by Spectral Response Range:

Visible Light BSI CMOS Sensor

Near-Infrared (NIR) BSI CMOS Sensor

Multi-Spectral BSI CMOS Sensor

Global Backside-illuminated (BSI) CMOS Sensor Market, Segmentation by Application:

Consumer Electronics

Industrial Automation

Security Monitoring

Medical Imaging

Others

Companies Profiled:

SONY

Samsung

OmniVision

STMicroelectronics

Onsemi

SK Hynix

GalaxyCore

Panasonic

SmartSens Technology

Canon

Silicon Optonics

Key Questions Answered:

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

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