

Global RGB CMOS Image Sensors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global RGB CMOS Image Sensors market size is expected to reach \$ 12711 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

In 2025, global RGB CMOS image sensor production reached approximately 1.86 billion Units, with an average global market price of around US\$ 4.1 per unit.

An RGB CMOS image sensor is a color - sensitive semiconductor device that captures visible light by filtering red (R), green (G), blue (B) wavelengths through a Bayer - pattern color filter array, converting photons into digital signals for high - quality color imaging. It is the mainstream choice for consumer electronics, automotive, industrial, and security applications, outperforming CCDs in power efficiency, integration, and cost. 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 RGB CMOS Image Sensors production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global RGB CMOS Image Sensors total production and demand, 2021-2032, (Million Units)

Global RGB CMOS Image Sensors total production value, 2021-2032, (USD Million)

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

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

U.S. VS China: RGB CMOS Image Sensors domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global RGB CMOS Image Sensors 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, Panasonic, Smartsens Technology, Canon, SOI, 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 RGB CMOS Image Sensors 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 RGB CMOS Image Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global RGB CMOS Image Sensors Market, Segmentation by Type:

Global Shutter

Rolling Shutter

Global RGB CMOS Image Sensors Market, Segmentation by Pixel Structure:

Front Side Illuminated

Back Side Illuminated

Stacked CMOS Image Sensor

Global RGB CMOS Image Sensors Market, Segmentation by Pixel Size:

Small Pixel

Medium Pixel

Large Pixel

Global RGB CMOS Image Sensors Market, Segmentation by Application:

Automotive

Consumer Electronics

Industrial

Security & Surveillance

Others

Companies Profiled:

SONY

Samsung

OmniVision

STMicroelectronics

On Semi

GalaxyCore

Panasonic

Smartsens Technology

Canon

SOI

Key Questions Answered:

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

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