

Global Full Frame CIS Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Full Frame CIS market size is expected to reach \$ 1368 million by 2032, rising at a market growth of 8.4% CAGR during the forecast period (2026-2032).

In 2025, global production of full-frame CIS reached 2.41 million units, with an estimated average selling price of \$320 per unit. Full-frame CIS refers to a CMOS image sensor with an imaging area close to that of traditional 35mm film, a typical size of approximately 36mm x 24mm, and a diagonal of approximately 43.3mm. It differs from the small-sized CIS commonly found in mobile phones, automobiles, and security systems, and is used in full-frame mirrorless/SLR cameras, digital cinema cameras, industrial machinery, astronomical/scientific cameras, medical/microscopic imaging, surveying/aerospace, and other fields. The upstream segment includes high-purity silicon wafers, CIS wafer foundry/own wafer fabs, photoresists, color filters, microlenses, metal interconnects, packaging substrates, glass covers, testing equipment, image processing IP, and EDA tools; the midstream segment includes sensor design, wafer manufacturing/foundry, packaging and testing, and imaging solutions; the downstream segment primarily serves camera and scientific imaging equipment manufacturers, as well as industrial vision, medical, scientific research, and aerospace customers. Gross profit margin is approximately 30%-50%.

From a global production perspective, Japan serves as the core manufacturing hub; Europe possesses a supply chain for large-format sensors geared toward industrial and scientific research; and China's supply chain focuses primarily on packaging and testing, modules, and scientific-grade cameras. On the consumption side, the Asia-Pacific region is supported by camera supply chains and industrial vision demands across Japan, China, and South Korea; North America is driven by demand in high-end imaging, scientific research, aerospace, healthcare, and machine vision; and Europe's

market is dominated by industrial inspection, scientific research, automotive/high-end manufacturing, and professional imaging. Looking ahead, full-frame CIS technology will continue to evolve toward higher resolutions, back-illuminated and stacked architectures, high-speed readout, low noise, high dynamic range, global shutter capabilities, AI computational photography integration, 8K/12K video support, and scientific-grade performance?specifically low dark current and stability during long exposures.

This report studies the global Full Frame CIS production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Full Frame CIS total production and demand, 2021-2032, (Million Units)

Global Full Frame CIS total production value, 2021-2032, (USD Million)

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

Global Full Frame CIS consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Full Frame CIS domestic production, consumption, key domestic manufacturers and share

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

Global Full Frame CIS production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Full Frame CIS production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Full Frame CIS 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, SmartSens Technology, OmniVision Group, ams OSRAM, Nexchip, 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 CIS 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 Full Frame CIS Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Full Frame CIS Market, Segmentation by Type:

Tens of Millions of Pixels (10MP+)

Hundreds of Millions of Pixels (100MP+)

Global Full Frame CIS Market, Segmentation by Process Structure:

FSI (Front-Side Illumination)

BSI (Back-Side Illumination)

Global Full Frame CIS Market, Segmentation by Color Format:

Color

Monochrome

Near-infrared (NIR) enhanced

Global Full Frame CIS Market, Segmentation by Application:

Camera

Scientific Imaging Equipments

Industrial Vision

Others

Companies Profiled:

Sony

Canon

SmartSens Technology

OmniVision Group

ams OSRAM

Nexchip

Key Questions Answered:

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

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