

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

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Abstracts

The global Full-frame CIS Chip 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 full-frame CIS chip production reached 2.41 million units, with an estimated average selling price of \$320 per unit. A full-frame CIS chip refers to a high-end, large-area image sensor chip manufactured using CMOS image sensor technology, with an effective imaging area close to 36mm × 24mm. It primarily converts optical images into digital image signals through pixel arrays and on-chip readout circuitry, and is widely used in high-resolution, high dynamic range imaging devices such as full-frame cameras, cinema cameras, industrial vision systems, scientific imaging, and medical testing. 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%.

This report studies the global Full-frame CIS Chip production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Full-frame CIS Chip 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 Chip that contribute

to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Full-frame CIS Chip 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 Chip 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 Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Full-frame CIS Chip Market, Segmentation by Type:

Tens of Millions of Pixels (10MP+)

Hundreds of Millions of Pixels (100MP+)

Global Full-frame CIS Chip Market, Segmentation by Process Structure:

FSI (Front-Side Illumination)

BSI (Back-Side Illumination)

Global Full-frame CIS Chip Market, Segmentation by Color Format:

Color

Monochrome

Near-infrared (NIR) enhanced

Global Full-frame CIS Chip 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 Chip market?
2. What is the demand of the global Full-frame CIS Chip market?
3. What is the year over year growth of the global Full-frame CIS Chip market?
4. What is the production and production value of the global Full-frame CIS Chip market?
5. Who are the key producers in the global Full-frame CIS Chip market?
6. What are the growth factors driving the market demand?

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