

Global Full-frame CIS Chip 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 Full-frame CIS Chip market size was valued at US\$ 794 million in 2025 and is forecast to a readjusted size of US\$ 1368 million by 2032 with a CAGR of 8.4% during review period.

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 is a detailed and comprehensive analysis for global Full-frame CIS Chip market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type 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 Full-frame CIS Chip market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Full-frame CIS Chip market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Full-frame CIS Chip market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Full-frame CIS Chip market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 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 Full-frame CIS Chip

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 Full-frame CIS Chip 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, 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.

Market Segmentation

Full-frame CIS Chip market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, 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 Type

Tens of Millions of Pixels (10MP+)

Hundreds of Millions of Pixels (100MP+)

Market segment by Process Structure

FSI (Front-Side Illumination)

BSI (Back-Side Illumination)

Market segment by Color Format

Color

Monochrome

Near-infrared (NIR) enhanced

Market segment by Application

Camera

Scientific Imaging Equipments

Industrial Vision

Others

Major players covered

Sony

Canon

SmartSens Technology

OmniVision Group

ams OSRAM

Nexchip

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 Full-frame CIS Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Full-frame CIS Chip, with price, sales quantity, revenue, and global market share of Full-frame CIS Chip from 2021 to 2026.

Chapter 3, the Full-frame CIS Chip competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Full-frame CIS Chip 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 Type and by Application, with sales market share and growth rate by Type, 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 Full-frame CIS Chip market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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

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Chapter 14 and 15, to describe Full-frame CIS Chip sales channel, distributors, customers, research findings and conclusion.

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