

Global Ultra-High-Resolution Full-Frame CIS 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 Ultra-High-Resolution Full-Frame CIS market size was valued at US\$ 623 million in 2025 and is forecast to a readjusted size of US\$ 1092 million by 2032 with a CAGR of 8.7% during review period.

In 2025, global production of Ultra-High-Resolution Full-Frame CIS reached 1.76 million units, with an estimated average selling price of \$344 per unit. Ultra-high pixel full-frame CIS refers to CMOS image sensor chips with an effective imaging area close to that of a 35mm full-frame sensor, typically around 36mm × 24mm with a diagonal of approximately 43.3mm, and a significantly higher pixel count than conventional full-frame sensors. Generally, 60 megapixels and above are considered the starting point for 'ultra-high pixel full-frame CIS'. It can achieve higher pixel density, higher detail resolution, larger format output, stronger cropping capabilities, and higher precision detection capabilities within the limited area of a full-frame sensor. It is widely used in high-end full-frame cameras, astronomical/scientific cameras, digital artifact and archive scanning, industrial inspection, machine vision, medical imaging, microscopic imaging, security monitoring, aerospace, and surveying imaging. The upstream of the industry chain 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 includes sensor design, wafer manufacturing/foundry, packaging and testing, and imaging solutions; the downstream mainly consists of camera and scientific imaging equipment manufacturers, as well as industrial vision, medical, scientific research, and aerospace customers. Gross profit margins range from approximately 30% to 50%.

This report is a detailed and comprehensive analysis for global Ultra-High-Resolution

Full-Frame CIS 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 Ultra-High-Resolution Full-Frame CIS market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Ultra-High-Resolution Full-Frame CIS 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 Ultra-High-Resolution Full-Frame CIS 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 Ultra-High-Resolution Full-Frame CIS 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 Ultra-High-Resolution Full-Frame CIS

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 Ultra-High-Resolution Full-Frame CIS 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

Ultra-High-Resolution Full-Frame CIS 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 Ultra-High-Resolution Full-Frame CIS product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Ultra-High-Resolution Full-Frame CIS 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 Ultra-High-Resolution Full-Frame CIS 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.

Chapter 13, the key raw materials and key suppliers, and industry chain of Ultra-High-Resolution Full-Frame CIS.

Chapter 14 and 15, to describe Ultra-High-Resolution Full-Frame CIS sales channel, distributors, customers, research findings and conclusion.

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