

Global High-pixel Automotive-grade 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 High-pixel Automotive-grade CIS market size was valued at US\$ 896 million in 2025 and is forecast to a readjusted size of US\$ 1464 million by 2032 with a CAGR of 7.2% during review period.

In 2025, global High-pixel Automotive-grade CIS production reached approximately 280.97 million Units, with an average global market price of around US\$ 3.1 per unit.

High-pixel Automotive-grade CIS (CMOS Image Sensor) is a specialized automotive imaging component, defined as automotive CIS with a pixel resolution of 8 megapixels (MP) or higher (the mainstream of basic automotive CIS is 2MP-5MP). It is developed for the high-precision environmental perception needs of mid-to-high-level autonomous driving (L2 to L4 level), and is optimized for the harsh working environment and functional safety requirements of vehicles.

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 is a detailed and comprehensive analysis for global High-pixel Automotive-grade 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 High-pixel Automotive-grade CIS market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global High-pixel Automotive-grade 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 High-pixel Automotive-grade 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 High-pixel Automotive-grade 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 High-pixel Automotive-grade 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 High-pixel Automotive-grade 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, 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.

Market Segmentation

High-pixel Automotive-grade 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

Mid-high Pixel CIS (2-5M)

High-pixel CIS (5-8M)

Market segment by the Installation Position and Function of the Vehicle

Front-view CIS

Surround-view CIS

Rear-view CIS

In-cabin CIS

Side-view CIS

Market segment by Photosensitive Structure

Front Side Illuminated

Back Side Illuminated

Stacked CMOS Image Sensor

Market segment by Application

Commercial Vehicle

Passenger Vehicle

Major players covered

SONY

Samsung

OmniVision

STMicroelectronics

On Semi

GalaxyCore

Panasonic

Smartsens Technology

Canon

SOI

PixelPlus

BYD

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 High-pixel Automotive-grade CIS product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High-pixel Automotive-grade CIS, with price, sales quantity, revenue, and global market share of High-pixel Automotive-grade CIS from 2021 to 2026.

Chapter 3, the High-pixel Automotive-grade CIS competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High-pixel Automotive-grade 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 High-pixel Automotive-grade 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 High-pixel Automotive-grade CIS.

Chapter 14 and 15, to describe High-pixel Automotive-grade CIS sales channel, distributors, customers, research findings and conclusion.

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