

Global Automotive CMOS Image Sensors (CIS) Market Growth 2026-2032

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Abstracts

The global Automotive CMOS Image Sensors (CIS) market size is predicted to grow from US\$ 2051 million in 2025 to US\$ 4322 million in 2032; it is expected to grow at a CAGR of 12.1% from 2026 to 2032.

In 2025, global automotive CMOS Image Sensors (CIS) production reached 241 million units, with an estimated average selling price of \$8.70 per unit. Automotive CMOS Image Sensors (CIS) refers to CMOS image sensor chips designed to meet automotive-grade standards for reliability, temperature tolerance, lifespan, functional safety, and image quality. They primarily convert optical images from outside or inside the vehicle into electronic/digital signals, supporting applications such as ADAS perception, autonomous driving, surround-view, reversing systems, electronic side mirrors, dashcams, DMS (Driver Monitoring Systems), OMS (Occupant Monitoring Systems), and in-cabin gesture/safety monitoring. The upstream supply chain includes silicon wafers, CIS wafer manufacturing/foundry services, photoresists, color filters, microlenses, metal interconnects, packaging substrates, automotive-grade packaging and testing, test equipment, EDA/IP, and automotive certification/reliability verification. The midstream involves CIS design and manufacturing. The downstream consists of OEMs, utilizing components such as front-view, surround-view, and rear-view cameras, in-cabin monitoring cameras, and electronic side mirror systems. Gross profit margin ranges from approximately 25% to 35%.

On a global scale, the Asia-Pacific region?particularly Japan, China, South Korea, and Southeast Asia?accounts for a significant share of the supply chain for both conventional and new energy vehicles. Demand is primarily driven by vehicle production and sales volumes, the adoption rates of intelligent driving features, and the number of cameras per vehicle. Looking ahead, automotive CIS technology will evolve from low-

resolution systems used for reversing or surround-view monitoring toward advanced capabilities. These include multi-camera setups, high resolution, HDR and LFM (LED Flicker Mitigation), night vision/NIR, integrated in-cabin and external sensing, ASIL functional safety compliance, low-power/compact packaging, and AI-integrated vision. Factors such as L2+/L3 intelligent driving, AEB regulations, electronic side mirrors, in-cabin monitoring mandates, automated parking, and the deployment of Robotaxis and high-level driver assistance systems will continue to drive growth in both the number of onboard cameras and the value of CIS components.

LP Information, Inc. (LPI) ' newest research report, the "Automotive CMOS Image Sensors (CIS) Industry Forecast" looks at past sales and reviews total world Automotive CMOS Image Sensors (CIS) sales in 2025, providing a comprehensive analysis by region and market sector of projected Automotive CMOS Image Sensors (CIS) sales for 2026 through 2032. With Automotive CMOS Image Sensors (CIS) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Automotive CMOS Image Sensors (CIS) industry.

This Insight Report provides a comprehensive analysis of the global Automotive CMOS Image Sensors (CIS) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Automotive CMOS Image Sensors (CIS) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Automotive CMOS Image Sensors (CIS) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive CMOS Image Sensors (CIS) and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Automotive CMOS Image Sensors (CIS).

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive CMOS Image Sensors (CIS) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

VGA/Below 1MP

1?3MP

5?8MP

Above 8MP

Segmentation by Technical Feature:

HDR (High Dynamic Range)

LFM (LED Flicker Mitigation)

BSI (Back-Illuminated)

RCCB/RGB-IR

Low-light/Near-infrared enhanced

Integrated ISP SoC

Segmentation by Application Location:

Front-view ADAS CIS

Surround-view / Rear-view CIS

Electronic Side Mirror CIS

In-cabin DMS/OMS CIS

Dashcam / Surveillance CIS

Segmentation by Application:

Passenger Cars

Commercial Vehicles

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Onsemi

OmniVision Group

China Wafer Level CSP

Sony

SmartSens Technology

Samsung

BYD Semiconductor

Pixelplus

Panasonic

Tower Semiconductor

STMicroelectronics

GalaxyCore

SK Hynix

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive CMOS Image Sensors (CIS) market?

What factors are driving Automotive CMOS Image Sensors (CIS) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Automotive CMOS Image Sensors (CIS) market opportunities vary by end market size?

How does Automotive CMOS Image Sensors (CIS) break out by Type, by Application?

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