

# Global Automotive CMOS Image Sensors (CIS) Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G4BCCDE51B95EN.html>

Date: July 2026

Pages: 120

Price: US\$ 4,480.00 (Single User License)

ID: G4BCCDE51B95EN

## Abstracts

The global Automotive CMOS Image Sensors (CIS) market size is expected to reach \$ 4377 million by 2032, rising at a market growth of 11.3% CAGR during the forecast period (2026-2032).

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.

This report studies the global Automotive CMOS Image Sensors (CIS) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive CMOS Image Sensors (CIS) 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 Automotive CMOS Image Sensors (CIS) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automotive CMOS Image Sensors (CIS) total production and demand, 2021-2032, (Million Units)

Global Automotive CMOS Image Sensors (CIS) total production value, 2021-2032, (USD Million)

Global Automotive CMOS Image Sensors (CIS) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Automotive CMOS Image Sensors (CIS) consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Automotive CMOS Image Sensors (CIS) domestic production, consumption, key domestic manufacturers and share

Global Automotive CMOS Image Sensors (CIS) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Automotive CMOS Image Sensors (CIS) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Automotive CMOS Image Sensors (CIS) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Automotive CMOS Image Sensors (CIS) 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 Onsemi, OmniVision Group, China Wafer Level CSP, Sony, SmartSens Technology, Samsung, BYD Semiconductor, Pixelpius, Panasonic, Tower Semiconductor, 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 Automotive CMOS Image Sensors (CIS) 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 Automotive CMOS Image Sensors (CIS) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive CMOS Image Sensors (CIS) Market, Segmentation by Type:

VGA/Below 1MP

1?3MP

5?8MP

Above 8MP

Global Automotive CMOS Image Sensors (CIS) Market, 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

Global Automotive CMOS Image Sensors (CIS) Market, 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

## Global Automotive CMOS Image Sensors (CIS) Market, Segmentation by Application:

Passenger Cars

Commercial Vehicles

## Companies Profiled:

Onsemi

OmniVision Group

China Wafer Level CSP

Sony

SmartSens Technology

Samsung

BYD Semiconductor

Pixelplus

Panasonic

Tower Semiconductor

STMicroelectronics

GalaxyCore

SK Hynix

## Key Questions Answered:

1. How big is the global Automotive CMOS Image Sensors (CIS) market?
2. What is the demand of the global Automotive CMOS Image Sensors (CIS) market?

3. What is the year over year growth of the global Automotive CMOS Image Sensors (CIS) market?
4. What is the production and production value of the global Automotive CMOS Image Sensors (CIS) market?
5. Who are the key producers in the global Automotive CMOS Image Sensors (CIS) market?
6. What are the growth factors driving the market demand?

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