

# Automotive CMOS Image Sensor Market In-Depth Analysis By Top Players By 2026 | Sony, Samsung, Panasonic, Canon

*Automotive CMOS image sensor market is growing at a substantial pace due to the growing demand for advanced driver-assistance systems in all types of vehicles.*

NEW YORK CITY, NEW YORK, UNITED STATES, March 9, 2020  
/EINPresswire.com/ -- Market Summary

Automotive Complementary Symmetry Metal Oxide Semiconductor (COSMOS) image Sensor, or commercially known as Complementary Metal Oxide Semiconductor (CMOS) Sensor is a special form of metal oxide semiconductor field-effect transistor (MOSFET) semiconductor fabrication process which makes use of the symmetrical pair of p-type and n-type MOSFETs in the logic functions for image processing.

The global automotive CMOS image sensor market is growing at a substantial pace due to the growing demand for advanced driver-assistance systems (ADAS) in all types of vehicles. The massive penetration for the futuristic driverless autonomous vehicle throughout the world influentially propels the use of automotive camera sensor systems owing to its high-performance safety feature deployment in the automotive systems. The radar system, in combination with high-resolution CMOS cameras sensors, are being implemented in the level 5 fully autonomous passenger cars by Tesla. These high-performance sensors increases the fluidity in fully autonomous vehicles by utilizing its advanced detection system coupled with the AI machine learning, which further assures the road safety of the car.

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The market in North America held the highest share in 2018 in the automotive CMOS image sensor market. APAC, due to its extensive growth in the automotive industry and extreme penetration towards driverless autonomous car commercialization coupled with the rising concerns and government regulation with vehicle safety systems, is growing with the fastest CAGR throughout the forecast period. China, Japan, and India are some of the most valuable contributors in this region. CMOS advanced driver-assistance system (ADAS) is the semiconductor systems that assist the



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driver with the advanced safety systems pertaining to parking control, road safety with a safe human-machine interface, with the help of high-quality CMOS image sensors.

ADAS systems typically come with semiconductor systems such as microcontroller units, electronic controller units, and electric power devices. The CMOS sensors are utilized for detecting the objects, condition of the road or parking lot, potholes, and all the other obstacles for the automotive movement. The CMOS sensor ADAS is being designed to incorporate for the detection of all the sides of the automotive. Front-View ADAS system helps the driver assist with the front exterior portion of the automotive, which helps while in the road and also during the parking. The same goes for the side viewing ADAS and the rear-viewing ADAS, while the rear-view ADAS is projected to achieve the highest market share due to its comprehensive implementation in most of the forthcoming mid-range passenger and premium passenger vehicles.

The in-cabin sensor is being hugely incorporated in the premium passenger vehicles, which further intensifies the passenger, driver safety, and inhibits the car stealing above all. The in-cabin CMOS sensors constantly detect the eye contact of the driver, and at any point of time, if the driver falls asleep or tends to get sleepy while driving, it immediately turns on some sort of alerting system in order to avoid any accidents. Another mentionable properties can be its face recognition facility, which detects the real owner of the car or the drivers registered previously. This facility reduces the chance of the car from getting stolen.

High penetration towards the driverless autonomous vehicles is the crucial propeller for this market. High range detection covered by the radar systems saves a considerable amount of investment in the driverless autonomous vehicles. Tesla's autopilot hardware comprises the radar system in combination with high-resolution CMOS image sensors.

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Rising concerns with the vehicle safety increases the demand for the radar systems in automotive for its advanced driver-assistance systems (ADAS). The radar-based ADAS improves the driver's convenience, reduces human errors and chances of collisions, and other casualties.

Semi-autonomous vehicle includes autonomous levels ranging from 1-4 levels of automation. Semi-autonomous is projected to achieve the highest market share as a higher amount of implementation of the CMOS image sensors has been observed in the semi-autonomous vehicles. Automation level (1-4) in vehicles refers to the automotive having moderate autonomous features such as dynamic driving tasks, and driverless operation in complete crowd-free roads.

APAC, owing to its impressive advancement in the automotive industry and substantial market penetration for driverless autonomous vehicles in China, Japan, and India, is expected to grow with the fastest CAGR throughout the forecast period and expected to surpass the European market.

European Region is forecasted to witness significant growth in the overall market, with a considerable market possession by 2027. Germany holds some of the most prominent players in this region, while Norway has been forecasted to participate in the market growth substantially.

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Companies considered and profiled in this market study  
Sony Corporation, Samsung Group, Panasonic Corporation, Canon Inc., PixArt Imaging Inc., Sharp Corporation, Himax Technologies, Inc., STMicroelectronics, Teledyne Technologies, Inc., and ON Semiconductor, among others.

Applications Outlook (Revenue, USD Billion; Volume, Thousand Unit; 2016-2026)

- Front-View ADAS
- Rear-View ADAS
- Side-View ADAS
- In-Cabin Applications

Resolution Outlook (Revenue, USD Billion; Volume, Thousand Unit; 2016-2026)

- 8K
- 4K
- Full HD
- HD
- SD

Vehicle Type Outlook (Revenue, USD Billion; Volume, Thousand Unit; 2016-2026)

- Mid-Range Passenger Vehicle
- Premium Passenger Vehicle
- Commercial Vehicle

Autonomous Mobility Outlook (Revenue, USD Billion; Volume, Thousand Unit; 2016-2026)

- Autonomous
- Semi-autonomous
- Manually Controlled

To identify the key trends in the industry, click on the link below:

<https://www.reportsanddata.com/report-detail/automotive-cmos-image-sensor-market>

Regional Outlook (Revenue, USD Billion; Volume, Thousand Unit; 2016-2026)

- North America
  - oU.S
- Europe
  - oU.K
  - oFrance
- Asia Pacific
  - oChina
  - oIndia
  - oJapan
- MEA
- Latin America
  - oBrazil

Contact Us:

John Watson  
Head of Business Development  
Reports And Data | Web: [www.reportsanddata.com](http://www.reportsanddata.com)  
Direct Line: +1-212-710-1370  
E-mail: [sales@reportsanddata.com](mailto:sales@reportsanddata.com)

John Watson  
Reports and Data  
+12127101370

[email us here](#)

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