

Global CMOS Image Sensor for Automotive Cameras Market Growth 2025-2031

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Abstracts

The global CMOS Image Sensor for Automotive Cameras market size is predicted to grow from US\$ 2129 million in 2025 to US\$ 4033 million in 2031; it is expected to grow at a CAGR of 11.2% from 2025 to 2031.

CMOS (Complementary Metal-Oxide-Semiconductor) image sensors are a type of semiconductor device that are widely used in various applications, including automotive cameras. In the context of automotive cameras, CMOS image sensors play a crucial role in capturing visual information from a vehicle's surroundings. They are an essential component of advanced driver assistance systems (ADAS), autonomous vehicles, and other automotive technologies aimed at enhancing safety and driving experience.

The market for CMOS (Complementary Metal-Oxide-Semiconductor) image sensors for automotive cameras was growing rapidly due to the increasing integration of advanced driver assistance systems (ADAS) and autonomous driving technologies in vehicles. CMOS image sensors have become a crucial component in these systems as they provide high-quality image and video data that is essential for various applications, such as lane departure warning, adaptive cruise control, parking assistance, and more.

Here are some key points about the CMOS image sensor market for automotive cameras up to that point:

Market Growth: The market for CMOS image sensors in automotive applications had been experiencing significant growth due to the increasing demand for safety features, improved driving experience, and advancements in sensor technology.

ADAS Integration: Advanced Driver Assistance Systems (ADAS) rely heavily on image

sensors to capture data from the vehicle's surroundings. CMOS image sensors are well-suited for this purpose due to their low power consumption, faster readout speeds, and on-chip processing capabilities.

Autonomous Driving: Autonomous vehicles require a multitude of sensors, including CMOS image sensors, to perceive the environment accurately. These sensors help with tasks like object detection, pedestrian recognition, road sign identification, and more.

Image Quality and Resolution: Automotive applications demand high-resolution and high-quality image sensors to ensure accurate perception of the surroundings. CMOS technology advancements have allowed for the development of sensors with improved sensitivity, dynamic range, and low-light performance.

Competition: The market has seen the presence of several key players in the semiconductor industry, including companies like Sony, ON Semiconductor, Samsung, Omnivision (a subsidiary of ON Semiconductor), and more. These companies have been continuously innovating to develop image sensors that meet the demanding requirements of automotive applications.

Challenges: Despite the growth, challenges such as thermal management, reliability, and the need for redundancy to ensure fail-safe operation in critical situations have been important considerations in designing automotive-grade CMOS image sensors.

Regulations and Safety Standards: As the automotive industry is highly regulated, CMOS image sensors used in vehicles need to adhere to stringent safety standards to ensure they perform reliably under various environmental conditions.

LP Information, Inc. (LPI) 's newest research report, the "CMOS Image Sensor for Automotive Cameras Industry Forecast" looks at past sales and reviews total world CMOS Image Sensor for Automotive Cameras sales in 2024, providing a comprehensive analysis by region and market sector of projected CMOS Image Sensor for Automotive Cameras sales for 2025 through 2031. With CMOS Image Sensor for Automotive Cameras sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world CMOS Image Sensor for Automotive Cameras industry.

This Insight Report provides a comprehensive analysis of the global CMOS Image Sensor for Automotive Cameras 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 CMOS Image Sensor for Automotive Cameras portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global CMOS Image Sensor for Automotive Cameras market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for CMOS Image Sensor for Automotive Cameras 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 CMOS Image Sensor for Automotive Cameras.

This report presents a comprehensive overview, market shares, and growth opportunities of CMOS Image Sensor for Automotive Cameras market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Resolution <1.3MP

Resolution 1.3MP-3MP

Resolution >3MP

Segmentation by Application:

Autonomous Driving

Surround View Cameras

E-Mirrors

In-Cabin Monitoring

Others

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.

On Semi

Omnivision

Sony

Panasonic

PIXELPLUS

STMicroelectronics

Samsung

Canon

BYD Semiconductor

SmartSens

GalaxyCore

Key Questions Addressed in this Report

is the 10-year outlook for the global CMOS Image Sensor for Automotive Cameras market?

factors are driving CMOS Image Sensor for Automotive Cameras market growth, globally and by region?

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

How do CMOS Image Sensor for Automotive Cameras market opportunities vary by end market size?

How does CMOS Image Sensor for Automotive Cameras break out by Type, by Application?

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