

Global CMOS Image Sensor for Automotive Cameras Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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Abstracts

According to our (Global Info Research) latest study, the global CMOS Image Sensor for Automotive Cameras market size was valued at USD 1680.3 million in 2022 and is forecast to a readjusted size of USD 3351.1 million by 2029 with a CAGR of 10.4% during review period.

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.

The Global Info Research report includes an overview of the development of the CMOS Image Sensor for Automotive Cameras industry chain, the market status of Autonomous Driving (Resolution ?1.3MP, Resolution 1.3MP-3MP), Surround View Cameras (Resolution ?1.3MP, Resolution 1.3MP-3MP), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of CMOS Image Sensor for Automotive Cameras.

Regionally, the report analyzes the CMOS Image Sensor for Automotive Cameras markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific,

particularly China, leads the global CMOS Image Sensor for Automotive Cameras market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the CMOS Image Sensor for Automotive Cameras market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the CMOS Image Sensor for Automotive Cameras industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Resolution >1.3MP, Resolution 1.3MP-3MP).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the CMOS Image Sensor for Automotive Cameras market.

Regional Analysis: The report involves examining the CMOS Image Sensor for Automotive Cameras market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the CMOS Image Sensor for Automotive Cameras market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to CMOS Image Sensor for Automotive Cameras:

Company Analysis: Report covers individual CMOS Image Sensor for Automotive Cameras manufacturers, suppliers, and other relevant industry players. This analysis

includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards CMOS Image Sensor for Automotive Cameras. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Autonomous Driving, Surround View Cameras).

Technology Analysis: Report covers specific technologies relevant to CMOS Image Sensor for Automotive Cameras. It assesses the current state, advancements, and potential future developments in CMOS Image Sensor for Automotive Cameras areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the CMOS Image Sensor for Automotive Cameras market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

CMOS Image Sensor for Automotive Cameras market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Resolution $\leq 1.3\text{MP}$

Resolution 1.3MP-3MP

Resolution >3MP

Market segment by Application

Autonomous Driving

Surround View Cameras

E-Mirrors

In-Cabin Monitoring

Others

Major players covered

On Semi

Omnivision

Sony

Panasonic

PIXELPLUS

STMicroelectronics

Samsung

Canon

BYD Semiconductor

SmartSens

GalaxyCore

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 CMOS Image Sensor for Automotive Cameras product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of CMOS Image Sensor for Automotive Cameras, with price, sales, revenue and global market share of CMOS Image Sensor for Automotive Cameras from 2018 to 2023.

Chapter 3, the CMOS Image Sensor for Automotive Cameras competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the CMOS Image Sensor for Automotive Cameras breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2017 to 2022. and CMOS Image Sensor for Automotive Cameras market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of CMOS

Image Sensor for Automotive Cameras.

Chapter 14 and 15, to describe CMOS Image Sensor for Automotive Cameras sales channel, distributors, customers, research findings and conclusion.

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