

Global CMOS Sensors for Automotive In-vehicle Cameras Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global CMOS Sensors for Automotive In-vehicle Cameras market size is expected to reach \$ 3351.1 million by 2029, rising at a market growth of 10.4% CAGR during the forecast period (2023-2029).

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.

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.

This report studies the global CMOS Sensors for Automotive In-vehicle Cameras production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for CMOS Sensors for Automotive In-vehicle Cameras, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of CMOS Sensors for Automotive In-vehicle Cameras that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global CMOS Sensors for Automotive In-vehicle Cameras total production and demand, 2018-2029, (K Units)

Global CMOS Sensors for Automotive In-vehicle Cameras total production value, 2018-2029, (USD Million)

Global CMOS Sensors for Automotive In-vehicle Cameras production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global CMOS Sensors for Automotive In-vehicle Cameras consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: CMOS Sensors for Automotive In-vehicle Cameras domestic production, consumption, key domestic manufacturers and share

Global CMOS Sensors for Automotive In-vehicle Cameras production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global CMOS Sensors for Automotive In-vehicle Cameras production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global CMOS Sensors for Automotive In-vehicle Cameras production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units).

This reports profiles key players in the global CMOS Sensors for Automotive In-vehicle Cameras 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 On Semi, Omnivision, Sony, Panasonic, PIXELPLUS, STMicroelectronics, Samsung, Canon and BYD 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 CMOS Sensors for Automotive In-vehicle Cameras market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global CMOS Sensors for Automotive In-vehicle Cameras Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global CMOS Sensors for Automotive In-vehicle Cameras Market, Segmentation by Type

Resolution $\leq 1.3\text{MP}$

Resolution 1.3MP-3MP

Resolution >3MP

Global CMOS Sensors for Automotive In-vehicle Cameras Market, Segmentation by Application

Autonomous Driving

Surround View Cameras

E-Mirrors

In-Cabin Monitoring

Others

Companies Profiled:

On Semi

Omnivision

Sony

Panasonic

PIXELPLUS

STMicroelectronics

Samsung

Canon

BYD Semiconductor

SmartSens

GalaxyCore

Key Questions Answered

1. How big is the global CMOS Sensors for Automotive In-vehicle Cameras market?

2. What is the demand of the global CMOS Sensors for Automotive In-vehicle Cameras market?
3. What is the year over year growth of the global CMOS Sensors for Automotive In-vehicle Cameras market?
4. What is the production and production value of the global CMOS Sensors for Automotive In-vehicle Cameras market?
5. Who are the key producers in the global CMOS Sensors for Automotive In-vehicle Cameras market?

Contents

1 SUPPLY SUMMARY

- 1.1 CMOS Sensors for Automotive In-vehicle Cameras Introduction
- 1.2 World CMOS Sensors for Automotive In-vehicle Cameras Supply & Forecast
 - 1.2.1 World CMOS Sensors for Automotive In-vehicle Cameras Production Value (2018 & 2022 & 2029)
 - 1.2.2 World CMOS Sensors for Automotive In-vehicle Cameras Production (2018-2029)
 - 1.2.3 World CMOS Sensors for Automotive In-vehicle Cameras Pricing Trends (2018-2029)
- 1.3 World CMOS Sensors for Automotive In-vehicle Cameras Production by Region (Based on Production Site)
 - 1.3.1 World CMOS Sensors for Automotive In-vehicle Cameras Production Value by Region (2018-2029)
 - 1.3.2 World CMOS Sensors for Automotive In-vehicle Cameras Production by Region (2018-2029)
 - 1.3.3 World CMOS Sensors for Automotive In-vehicle Cameras Average Price by Region (2018-2029)
 - 1.3.4 North America CMOS Sensors for Automotive In-vehicle Cameras Production (2018-2029)
 - 1.3.5 Europe CMOS Sensors for Automotive In-vehicle Cameras Production (2018-2029)
 - 1.3.6 China CMOS Sensors for Automotive In-vehicle Cameras Production (2018-2029)
 - 1.3.7 Japan CMOS Sensors for Automotive In-vehicle Cameras Production (2018-2029)
 - 1.3.8 South Korea CMOS Sensors for Automotive In-vehicle Cameras Production (2018-2029)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 CMOS Sensors for Automotive In-vehicle Cameras Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 CMOS Sensors for Automotive In-vehicle Cameras Major Market Trends

2 DEMAND SUMMARY

- 2.1 World CMOS Sensors for Automotive In-vehicle Cameras Demand (2018-2029)
- 2.2 World CMOS Sensors for Automotive In-vehicle Cameras Consumption by Region

2.2.1 World CMOS Sensors for Automotive In-vehicle Cameras Consumption by Region (2018-2023)

2.2.2 World CMOS Sensors for Automotive In-vehicle Cameras Consumption Forecast by Region (2024-2029)

2.3 United States CMOS Sensors for Automotive In-vehicle Cameras Consumption (2018-2029)

2.4 China CMOS Sensors for Automotive In-vehicle Cameras Consumption (2018-2029)

2.5 Europe CMOS Sensors for Automotive In-vehicle Cameras Consumption (2018-2029)

2.6 Japan CMOS Sensors for Automotive In-vehicle Cameras Consumption (2018-2029)

2.7 South Korea CMOS Sensors for Automotive In-vehicle Cameras Consumption (2018-2029)

2.8 ASEAN CMOS Sensors for Automotive In-vehicle Cameras Consumption (2018-2029)

2.9 India CMOS Sensors for Automotive In-vehicle Cameras Consumption (2018-2029)

3 WORLD CMOS SENSORS FOR AUTOMOTIVE IN-VEHICLE CAMERAS MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World CMOS Sensors for Automotive In-vehicle Cameras Production Value by Manufacturer (2018-2023)

3.2 World CMOS Sensors for Automotive In-vehicle Cameras Production by Manufacturer (2018-2023)

3.3 World CMOS Sensors for Automotive In-vehicle Cameras Average Price by Manufacturer (2018-2023)

3.4 CMOS Sensors for Automotive In-vehicle Cameras Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global CMOS Sensors for Automotive In-vehicle Cameras Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for CMOS Sensors for Automotive In-vehicle Cameras in 2022

3.5.3 Global Concentration Ratios (CR8) for CMOS Sensors for Automotive In-vehicle Cameras in 2022

3.6 CMOS Sensors for Automotive In-vehicle Cameras Market: Overall Company Footprint Analysis

3.6.1 CMOS Sensors for Automotive In-vehicle Cameras Market: Region Footprint

3.6.2 CMOS Sensors for Automotive In-vehicle Cameras Market: Company Product

Type Footprint

3.6.3 CMOS Sensors for Automotive In-vehicle Cameras Market: Company Product

Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: CMOS Sensors for Automotive In-vehicle Cameras

Production Value Comparison

4.1.1 United States VS China: CMOS Sensors for Automotive In-vehicle Cameras Production Value Comparison (2018 & 2022 & 2029)

4.1.2 United States VS China: CMOS Sensors for Automotive In-vehicle Cameras Production Value Market Share Comparison (2018 & 2022 & 2029)

4.2 United States VS China: CMOS Sensors for Automotive In-vehicle Cameras

Production Comparison

4.2.1 United States VS China: CMOS Sensors for Automotive In-vehicle Cameras Production Comparison (2018 & 2022 & 2029)

4.2.2 United States VS China: CMOS Sensors for Automotive In-vehicle Cameras Production Market Share Comparison (2018 & 2022 & 2029)

4.3 United States VS China: CMOS Sensors for Automotive In-vehicle Cameras

Consumption Comparison

4.3.1 United States VS China: CMOS Sensors for Automotive In-vehicle Cameras Consumption Comparison (2018 & 2022 & 2029)

4.3.2 United States VS China: CMOS Sensors for Automotive In-vehicle Cameras Consumption Market Share Comparison (2018 & 2022 & 2029)

4.4 United States Based CMOS Sensors for Automotive In-vehicle Cameras

Manufacturers and Market Share, 2018-2023

4.4.1 United States Based CMOS Sensors for Automotive In-vehicle Cameras Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers CMOS Sensors for Automotive In-vehicle Cameras Production Value (2018-2023)

4.4.3 United States Based Manufacturers CMOS Sensors for Automotive In-vehicle Cameras Production (2018-2023)

4.5 China Based CMOS Sensors for Automotive In-vehicle Cameras Manufacturers and

Market Share

4.5.1 China Based CMOS Sensors for Automotive In-vehicle Cameras Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers CMOS Sensors for Automotive In-vehicle Cameras Production Value (2018-2023)

4.5.3 China Based Manufacturers CMOS Sensors for Automotive In-vehicle Cameras Production (2018-2023)

4.6 Rest of World Based CMOS Sensors for Automotive In-vehicle Cameras Manufacturers and Market Share, 2018-2023

4.6.1 Rest of World Based CMOS Sensors for Automotive In-vehicle Cameras Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers CMOS Sensors for Automotive In-vehicle Cameras Production Value (2018-2023)

4.6.3 Rest of World Based Manufacturers CMOS Sensors for Automotive In-vehicle Cameras Production (2018-2023)

5 MARKET ANALYSIS BY TYPE

5.1 World CMOS Sensors for Automotive In-vehicle Cameras Market Size Overview by Type: 2018 VS 2022 VS 2029

5.2 Segment Introduction by Type

5.2.1 Resolution 1.3MP

5.2.2 Resolution 1.3MP-3MP

5.2.3 Resolution >3MP

5.3 Market Segment by Type

5.3.1 World CMOS Sensors for Automotive In-vehicle Cameras Production by Type (2018-2029)

5.3.2 World CMOS Sensors for Automotive In-vehicle Cameras Production Value by Type (2018-2029)

5.3.3 World CMOS Sensors for Automotive In-vehicle Cameras Average Price by Type (2018-2029)

6 MARKET ANALYSIS BY APPLICATION

6.1 World CMOS Sensors for Automotive In-vehicle Cameras Market Size Overview by Application: 2018 VS 2022 VS 2029

6.2 Segment Introduction by Application

6.2.1 Autonomous Driving

6.2.2 Surround View Cameras

6.2.3 E-Mirrors

6.2.4 In-Cabin Monitoring

6.2.5 Others

6.3 Market Segment by Application

6.3.1 World CMOS Sensors for Automotive In-vehicle Cameras Production by Application (2018-2029)

6.3.2 World CMOS Sensors for Automotive In-vehicle Cameras Production Value by Application (2018-2029)

6.3.3 World CMOS Sensors for Automotive In-vehicle Cameras Average Price by Application (2018-2029)

7 COMPANY PROFILES

7.1 On Semi

7.1.1 On Semi Details

7.1.2 On Semi Major Business

7.1.3 On Semi CMOS Sensors for Automotive In-vehicle Cameras Product and Services

7.1.4 On Semi CMOS Sensors for Automotive In-vehicle Cameras Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.1.5 On Semi Recent Developments/Updates

7.1.6 On Semi Competitive Strengths & Weaknesses

7.2 Omnivision

7.2.1 Omnivision Details

7.2.2 Omnivision Major Business

7.2.3 Omnivision CMOS Sensors for Automotive In-vehicle Cameras Product and Services

7.2.4 Omnivision CMOS Sensors for Automotive In-vehicle Cameras Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.2.5 Omnivision Recent Developments/Updates

7.2.6 Omnivision Competitive Strengths & Weaknesses

7.3 Sony

7.3.1 Sony Details

7.3.2 Sony Major Business

7.3.3 Sony CMOS Sensors for Automotive In-vehicle Cameras Product and Services

7.3.4 Sony CMOS Sensors for Automotive In-vehicle Cameras Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.3.5 Sony Recent Developments/Updates

7.3.6 Sony Competitive Strengths & Weaknesses

7.4 Panasonic

7.4.1 Panasonic Details

7.4.2 Panasonic Major Business

7.4.3 Panasonic CMOS Sensors for Automotive In-vehicle Cameras Product and Services

7.4.4 Panasonic CMOS Sensors for Automotive In-vehicle Cameras Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.4.5 Panasonic Recent Developments/Updates

7.4.6 Panasonic Competitive Strengths & Weaknesses

7.5 PIXELPLUS

7.5.1 PIXELPLUS Details

7.5.2 PIXELPLUS Major Business

7.5.3 PIXELPLUS CMOS Sensors for Automotive In-vehicle Cameras Product and Services

7.5.4 PIXELPLUS CMOS Sensors for Automotive In-vehicle Cameras Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.5.5 PIXELPLUS Recent Developments/Updates

7.5.6 PIXELPLUS Competitive Strengths & Weaknesses

7.6 STMicroelectronics

7.6.1 STMicroelectronics Details

7.6.2 STMicroelectronics Major Business

7.6.3 STMicroelectronics CMOS Sensors for Automotive In-vehicle Cameras Product and Services

7.6.4 STMicroelectronics CMOS Sensors for Automotive In-vehicle Cameras Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.6.5 STMicroelectronics Recent Developments/Updates

7.6.6 STMicroelectronics Competitive Strengths & Weaknesses

7.7 Samsung

7.7.1 Samsung Details

7.7.2 Samsung Major Business

7.7.3 Samsung CMOS Sensors for Automotive In-vehicle Cameras Product and Services

7.7.4 Samsung CMOS Sensors for Automotive In-vehicle Cameras Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.7.5 Samsung Recent Developments/Updates

7.7.6 Samsung Competitive Strengths & Weaknesses

7.8 Canon

7.8.1 Canon Details

7.8.2 Canon Major Business

- 7.8.3 Canon CMOS Sensors for Automotive In-vehicle Cameras Product and Services
- 7.8.4 Canon CMOS Sensors for Automotive In-vehicle Cameras Production, Price, Value, Gross Margin and Market Share (2018-2023)
- 7.8.5 Canon Recent Developments/Updates
- 7.8.6 Canon Competitive Strengths & Weaknesses
- 7.9 BYD Semiconductor
 - 7.9.1 BYD Semiconductor Details
 - 7.9.2 BYD Semiconductor Major Business
 - 7.9.3 BYD Semiconductor CMOS Sensors for Automotive In-vehicle Cameras Product and Services
 - 7.9.4 BYD Semiconductor CMOS Sensors for Automotive In-vehicle Cameras Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.9.5 BYD Semiconductor Recent Developments/Updates
 - 7.9.6 BYD Semiconductor Competitive Strengths & Weaknesses
- 7.10 SmartSens
 - 7.10.1 SmartSens Details
 - 7.10.2 SmartSens Major Business
 - 7.10.3 SmartSens CMOS Sensors for Automotive In-vehicle Cameras Product and Services
 - 7.10.4 SmartSens CMOS Sensors for Automotive In-vehicle Cameras Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.10.5 SmartSens Recent Developments/Updates
 - 7.10.6 SmartSens Competitive Strengths & Weaknesses
- 7.11 GalaxyCore
 - 7.11.1 GalaxyCore Details
 - 7.11.2 GalaxyCore Major Business
 - 7.11.3 GalaxyCore CMOS Sensors for Automotive In-vehicle Cameras Product and Services
 - 7.11.4 GalaxyCore CMOS Sensors for Automotive In-vehicle Cameras Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.11.5 GalaxyCore Recent Developments/Updates
 - 7.11.6 GalaxyCore Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

- 8.1 CMOS Sensors for Automotive In-vehicle Cameras Industry Chain
- 8.2 CMOS Sensors for Automotive In-vehicle Cameras Upstream Analysis
 - 8.2.1 CMOS Sensors for Automotive In-vehicle Cameras Core Raw Materials
 - 8.2.2 Main Manufacturers of CMOS Sensors for Automotive In-vehicle Cameras Core

Raw Materials

8.3 Midstream Analysis

8.4 Downstream Analysis

8.5 CMOS Sensors for Automotive In-vehicle Cameras Production Mode

8.6 CMOS Sensors for Automotive In-vehicle Cameras Procurement Model

8.7 CMOS Sensors for Automotive In-vehicle Cameras Industry Sales Model and Sales Channels

8.7.1 CMOS Sensors for Automotive In-vehicle Cameras Sales Model

8.7.2 CMOS Sensors for Automotive In-vehicle Cameras Typical Customers

9 RESEARCH FINDINGS AND CONCLUSION

10 APPENDIX

10.1 Methodology

10.2 Research Process and Data Source

10.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World CMOS Sensors for Automotive In-vehicle Cameras Production Value by Region (2018, 2022 and 2029) & (USD Million)

Table 2. World CMOS Sensors for Automotive In-vehicle Cameras Production Value by Region (2018-2023) & (USD Million)

Table 3. World CMOS Sensors for Automotive In-vehicle Cameras Production Value by Region (2024-2029) & (USD Million)

Table 4. World CMOS Sensors for Automotive In-vehicle Cameras Production Value Market Share by Region (2018-2023)

Table 5. World CMOS Sensors for Automotive In-vehicle Cameras Production Value Market Share by Region (2024-2029)

Table 6. World CMOS Sensors for Automotive In-vehicle Cameras Production by Region (2018-2023) & (K Units)

Table 7. World CMOS Sensors for Automotive In-vehicle Cameras Production by Region (2024-2029) & (K Units)

Table 8. World CMOS Sensors for Automotive In-vehicle Cameras Production Market Share by Region (2018-2023)

Table 9. World CMOS Sensors for Automotive In-vehicle Cameras Production Market Share by Region (2024-2029)

Table 10. World CMOS Sensors for Automotive In-vehicle Cameras Average Price by Region (2018-2023) & (US\$/Unit)

Table 11. World CMOS Sensors for Automotive In-vehicle Cameras Average Price by Region (2024-2029) & (US\$/Unit)

Table 12. CMOS Sensors for Automotive In-vehicle Cameras Major Market Trends

Table 13. World CMOS Sensors for Automotive In-vehicle Cameras Consumption Growth Rate Forecast by Region (2018 & 2022 & 2029) & (K Units)

Table 14. World CMOS Sensors for Automotive In-vehicle Cameras Consumption by Region (2018-2023) & (K Units)

Table 15. World CMOS Sensors for Automotive In-vehicle Cameras Consumption Forecast by Region (2024-2029) & (K Units)

Table 16. World CMOS Sensors for Automotive In-vehicle Cameras Production Value by Manufacturer (2018-2023) & (USD Million)

Table 17. Production Value Market Share of Key CMOS Sensors for Automotive In-vehicle Cameras Producers in 2022

Table 18. World CMOS Sensors for Automotive In-vehicle Cameras Production by Manufacturer (2018-2023) & (K Units)

Table 19. Production Market Share of Key CMOS Sensors for Automotive In-vehicle Cameras Producers in 2022

Table 20. World CMOS Sensors for Automotive In-vehicle Cameras Average Price by Manufacturer (2018-2023) & (US\$/Unit)

Table 21. Global CMOS Sensors for Automotive In-vehicle Cameras Company Evaluation Quadrant

Table 22. World CMOS Sensors for Automotive In-vehicle Cameras Industry Rank of Major Manufacturers, Based on Production Value in 2022

Table 23. Head Office and CMOS Sensors for Automotive In-vehicle Cameras Production Site of Key Manufacturer

Table 24. CMOS Sensors for Automotive In-vehicle Cameras Market: Company Product Type Footprint

Table 25. CMOS Sensors for Automotive In-vehicle Cameras Market: Company Product Application Footprint

Table 26. CMOS Sensors for Automotive In-vehicle Cameras Competitive Factors

Table 27. CMOS Sensors for Automotive In-vehicle Cameras New Entrant and Capacity Expansion Plans

Table 28. CMOS Sensors for Automotive In-vehicle Cameras Mergers & Acquisitions Activity

Table 29. United States VS China CMOS Sensors for Automotive In-vehicle Cameras Production Value Comparison, (2018 & 2022 & 2029) & (USD Million)

Table 30. United States VS China CMOS Sensors for Automotive In-vehicle Cameras Production Comparison, (2018 & 2022 & 2029) & (K Units)

Table 31. United States VS China CMOS Sensors for Automotive In-vehicle Cameras Consumption Comparison, (2018 & 2022 & 2029) & (K Units)

Table 32. United States Based CMOS Sensors for Automotive In-vehicle Cameras Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers CMOS Sensors for Automotive In-vehicle Cameras Production Value, (2018-2023) & (USD Million)

Table 34. United States Based Manufacturers CMOS Sensors for Automotive In-vehicle Cameras Production Value Market Share (2018-2023)

Table 35. United States Based Manufacturers CMOS Sensors for Automotive In-vehicle Cameras Production (2018-2023) & (K Units)

Table 36. United States Based Manufacturers CMOS Sensors for Automotive In-vehicle Cameras Production Market Share (2018-2023)

Table 37. China Based CMOS Sensors for Automotive In-vehicle Cameras Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers CMOS Sensors for Automotive In-vehicle Cameras Production Value, (2018-2023) & (USD Million)

- Table 39. China Based Manufacturers CMOS Sensors for Automotive In-vehicle Cameras Production Value Market Share (2018-2023)
- Table 40. China Based Manufacturers CMOS Sensors for Automotive In-vehicle Cameras Production (2018-2023) & (K Units)
- Table 41. China Based Manufacturers CMOS Sensors for Automotive In-vehicle Cameras Production Market Share (2018-2023)
- Table 42. Rest of World Based CMOS Sensors for Automotive In-vehicle Cameras Manufacturers, Headquarters and Production Site (States, Country)
- Table 43. Rest of World Based Manufacturers CMOS Sensors for Automotive In-vehicle Cameras Production Value, (2018-2023) & (USD Million)
- Table 44. Rest of World Based Manufacturers CMOS Sensors for Automotive In-vehicle Cameras Production Value Market Share (2018-2023)
- Table 45. Rest of World Based Manufacturers CMOS Sensors for Automotive In-vehicle Cameras Production (2018-2023) & (K Units)
- Table 46. Rest of World Based Manufacturers CMOS Sensors for Automotive In-vehicle Cameras Production Market Share (2018-2023)
- Table 47. World CMOS Sensors for Automotive In-vehicle Cameras Production Value by Type, (USD Million), 2018 & 2022 & 2029
- Table 48. World CMOS Sensors for Automotive In-vehicle Cameras Production by Type (2018-2023) & (K Units)
- Table 49. World CMOS Sensors for Automotive In-vehicle Cameras Production by Type (2024-2029) & (K Units)
- Table 50. World CMOS Sensors for Automotive In-vehicle Cameras Production Value by Type (2018-2023) & (USD Million)
- Table 51. World CMOS Sensors for Automotive In-vehicle Cameras Production Value by Type (2024-2029) & (USD Million)
- Table 52. World CMOS Sensors for Automotive In-vehicle Cameras Average Price by Type (2018-2023) & (US\$/Unit)
- Table 53. World CMOS Sensors for Automotive In-vehicle Cameras Average Price by Type (2024-2029) & (US\$/Unit)
- Table 54. World CMOS Sensors for Automotive In-vehicle Cameras Production Value by Application, (USD Million), 2018 & 2022 & 2029
- Table 55. World CMOS Sensors for Automotive In-vehicle Cameras Production by Application (2018-2023) & (K Units)
- Table 56. World CMOS Sensors for Automotive In-vehicle Cameras Production by Application (2024-2029) & (K Units)
- Table 57. World CMOS Sensors for Automotive In-vehicle Cameras Production Value by Application (2018-2023) & (USD Million)
- Table 58. World CMOS Sensors for Automotive In-vehicle Cameras Production Value

by Application (2024-2029) & (USD Million)

Table 59. World CMOS Sensors for Automotive In-vehicle Cameras Average Price by Application (2018-2023) & (US\$/Unit)

Table 60. World CMOS Sensors for Automotive In-vehicle Cameras Average Price by Application (2024-2029) & (US\$/Unit)

Table 61. On Semi Basic Information, Manufacturing Base and Competitors

Table 62. On Semi Major Business

Table 63. On Semi CMOS Sensors for Automotive In-vehicle Cameras Product and Services

Table 64. On Semi CMOS Sensors for Automotive In-vehicle Cameras Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 65. On Semi Recent Developments/Updates

Table 66. On Semi Competitive Strengths & Weaknesses

Table 67. Omnivision Basic Information, Manufacturing Base and Competitors

Table 68. Omnivision Major Business

Table 69. Omnivision CMOS Sensors for Automotive In-vehicle Cameras Product and Services

Table 70. Omnivision CMOS Sensors for Automotive In-vehicle Cameras Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 71. Omnivision Recent Developments/Updates

Table 72. Omnivision Competitive Strengths & Weaknesses

Table 73. Sony Basic Information, Manufacturing Base and Competitors

Table 74. Sony Major Business

Table 75. Sony CMOS Sensors for Automotive In-vehicle Cameras Product and Services

Table 76. Sony CMOS Sensors for Automotive In-vehicle Cameras Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 77. Sony Recent Developments/Updates

Table 78. Sony Competitive Strengths & Weaknesses

Table 79. Panasonic Basic Information, Manufacturing Base and Competitors

Table 80. Panasonic Major Business

Table 81. Panasonic CMOS Sensors for Automotive In-vehicle Cameras Product and Services

Table 82. Panasonic CMOS Sensors for Automotive In-vehicle Cameras Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

- Table 83. Panasonic Recent Developments/Updates
- Table 84. Panasonic Competitive Strengths & Weaknesses
- Table 85. PIXELPLUS Basic Information, Manufacturing Base and Competitors
- Table 86. PIXELPLUS Major Business
- Table 87. PIXELPLUS CMOS Sensors for Automotive In-vehicle Cameras Product and Services
- Table 88. PIXELPLUS CMOS Sensors for Automotive In-vehicle Cameras Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 89. PIXELPLUS Recent Developments/Updates
- Table 90. PIXELPLUS Competitive Strengths & Weaknesses
- Table 91. STMicroelectronics Basic Information, Manufacturing Base and Competitors
- Table 92. STMicroelectronics Major Business
- Table 93. STMicroelectronics CMOS Sensors for Automotive In-vehicle Cameras Product and Services
- Table 94. STMicroelectronics CMOS Sensors for Automotive In-vehicle Cameras Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 95. STMicroelectronics Recent Developments/Updates
- Table 96. STMicroelectronics Competitive Strengths & Weaknesses
- Table 97. Samsung Basic Information, Manufacturing Base and Competitors
- Table 98. Samsung Major Business
- Table 99. Samsung CMOS Sensors for Automotive In-vehicle Cameras Product and Services
- Table 100. Samsung CMOS Sensors for Automotive In-vehicle Cameras Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 101. Samsung Recent Developments/Updates
- Table 102. Samsung Competitive Strengths & Weaknesses
- Table 103. Canon Basic Information, Manufacturing Base and Competitors
- Table 104. Canon Major Business
- Table 105. Canon CMOS Sensors for Automotive In-vehicle Cameras Product and Services
- Table 106. Canon CMOS Sensors for Automotive In-vehicle Cameras Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 107. Canon Recent Developments/Updates
- Table 108. Canon Competitive Strengths & Weaknesses
- Table 109. BYD Semiconductor Basic Information, Manufacturing Base and

Competitors

Table 110. BYD Semiconductor Major Business

Table 111. BYD Semiconductor CMOS Sensors for Automotive In-vehicle Cameras Product and Services

Table 112. BYD Semiconductor CMOS Sensors for Automotive In-vehicle Cameras Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 113. BYD Semiconductor Recent Developments/Updates

Table 114. BYD Semiconductor Competitive Strengths & Weaknesses

Table 115. SmartSens Basic Information, Manufacturing Base and Competitors

Table 116. SmartSens Major Business

Table 117. SmartSens CMOS Sensors for Automotive In-vehicle Cameras Product and Services

Table 118. SmartSens CMOS Sensors for Automotive In-vehicle Cameras Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 119. SmartSens Recent Developments/Updates

Table 120. GalaxyCore Basic Information, Manufacturing Base and Competitors

Table 121. GalaxyCore Major Business

Table 122. GalaxyCore CMOS Sensors for Automotive In-vehicle Cameras Product and Services

Table 123. GalaxyCore CMOS Sensors for Automotive In-vehicle Cameras Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 124. Global Key Players of CMOS Sensors for Automotive In-vehicle Cameras Upstream (Raw Materials)

Table 125. CMOS Sensors for Automotive In-vehicle Cameras Typical Customers

Table 126. CMOS Sensors for Automotive In-vehicle Cameras Typical Distributors

List of Figure

Figure 1. CMOS Sensors for Automotive In-vehicle Cameras Picture

Figure 2. World CMOS Sensors for Automotive In-vehicle Cameras Production Value: 2018 & 2022 & 2029, (USD Million)

Figure 3. World CMOS Sensors for Automotive In-vehicle Cameras Production Value and Forecast (2018-2029) & (USD Million)

Figure 4. World CMOS Sensors for Automotive In-vehicle Cameras Production (2018-2029) & (K Units)

Figure 5. World CMOS Sensors for Automotive In-vehicle Cameras Average Price (2018-2029) & (US\$/Unit)

Figure 6. World CMOS Sensors for Automotive In-vehicle Cameras Production Value

Market Share by Region (2018-2029)

Figure 7. World CMOS Sensors for Automotive In-vehicle Cameras Production Market Share by Region (2018-2029)

Figure 8. North America CMOS Sensors for Automotive In-vehicle Cameras Production (2018-2029) & (K Units)

Figure 9. Europe CMOS Sensors for Automotive In-vehicle Cameras Production (2018-2029) & (K Units)

Figure 10. China CMOS Sensors for Automotive In-vehicle Cameras Production (2018-2029) & (K Units)

Figure 11. Japan CMOS Sensors for Automotive In-vehicle Cameras Production (2018-2029) & (K Units)

Figure 12. South Korea CMOS Sensors for Automotive In-vehicle Cameras Production (2018-2029) & (K Units)

Figure 13. CMOS Sensors for Automotive In-vehicle Cameras Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World CMOS Sensors for Automotive In-vehicle Cameras Consumption (2018-2029) & (K Units)

Figure 16. World CMOS Sensors for Automotive In-vehicle Cameras Consumption Market Share by Region (2018-2029)

Figure 17. United States CMOS Sensors for Automotive In-vehicle Cameras Consumption (2018-2029) & (K Units)

Figure 18. China CMOS Sensors for Automotive In-vehicle Cameras Consumption (2018-2029) & (K Units)

Figure 19. Europe CMOS Sensors for Automotive In-vehicle Cameras Consumption (2018-2029) & (K Units)

Figure 20. Japan CMOS Sensors for Automotive In-vehicle Cameras Consumption (2018-2029) & (K Units)

Figure 21. South Korea CMOS Sensors for Automotive In-vehicle Cameras Consumption (2018-2029) & (K Units)

Figure 22. ASEAN CMOS Sensors for Automotive In-vehicle Cameras Consumption (2018-2029) & (K Units)

Figure 23. India CMOS Sensors for Automotive In-vehicle Cameras Consumption (2018-2029) & (K Units)

Figure 24. Producer Shipments of CMOS Sensors for Automotive In-vehicle Cameras by Manufacturer Revenue (\$MM) and Market Share (%): 2022

Figure 25. Global Four-firm Concentration Ratios (CR4) for CMOS Sensors for Automotive In-vehicle Cameras Markets in 2022

Figure 26. Global Four-firm Concentration Ratios (CR8) for CMOS Sensors for Automotive In-vehicle Cameras Markets in 2022

- Figure 27. United States VS China: CMOS Sensors for Automotive In-vehicle Cameras Production Value Market Share Comparison (2018 & 2022 & 2029)
- Figure 28. United States VS China: CMOS Sensors for Automotive In-vehicle Cameras Production Market Share Comparison (2018 & 2022 & 2029)
- Figure 29. United States VS China: CMOS Sensors for Automotive In-vehicle Cameras Consumption Market Share Comparison (2018 & 2022 & 2029)
- Figure 30. United States Based Manufacturers CMOS Sensors for Automotive In-vehicle Cameras Production Market Share 2022
- Figure 31. China Based Manufacturers CMOS Sensors for Automotive In-vehicle Cameras Production Market Share 2022
- Figure 32. Rest of World Based Manufacturers CMOS Sensors for Automotive In-vehicle Cameras Production Market Share 2022
- Figure 33. World CMOS Sensors for Automotive In-vehicle Cameras Production Value by Type, (USD Million), 2018 & 2022 & 2029
- Figure 34. World CMOS Sensors for Automotive In-vehicle Cameras Production Value Market Share by Type in 2022
- Figure 35. Resolution ?1.3MP
- Figure 36. Resolution 1.3MP-3MP
- Figure 37. Resolution ?3MP
- Figure 38. World CMOS Sensors for Automotive In-vehicle Cameras Production Market Share by Type (2018-2029)
- Figure 39. World CMOS Sensors for Automotive In-vehicle Cameras Production Value Market Share by Type (2018-2029)
- Figure 40. World CMOS Sensors for Automotive In-vehicle Cameras Average Price by Type (2018-2029) & (US\$/Unit)
- Figure 41. World CMOS Sensors for Automotive In-vehicle Cameras Production Value by Application, (USD Million), 2018 & 2022 & 2029
- Figure 42. World CMOS Sensors for Automotive In-vehicle Cameras Production Value Market Share by Application in 2022
- Figure 43. Autonomous Driving
- Figure 44. Surround View Cameras
- Figure 45. E-Mirrors
- Figure 46. In-Cabin Monitoring
- Figure 47. Others
- Figure 48. World CMOS Sensors for Automotive In-vehicle Cameras Production Market Share by Application (2018-2029)
- Figure 49. World CMOS Sensors for Automotive In-vehicle Cameras Production Value Market Share by Application (2018-2029)
- Figure 50. World CMOS Sensors for Automotive In-vehicle Cameras Average Price by

Application (2018-2029) & (US\$/Unit)

Figure 51. CMOS Sensors for Automotive In-vehicle Cameras Industry Chain

Figure 52. CMOS Sensors for Automotive In-vehicle Cameras Procurement Model

Figure 53. CMOS Sensors for Automotive In-vehicle Cameras Sales Model

Figure 54. CMOS Sensors for Automotive In-vehicle Cameras Sales Channels, Direct Sales, and Distribution

Figure 55. Methodology

Figure 56. Research Process and Data Source

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