

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

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Abstracts

The global Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive In-vehicle Camera CMOS Sensors, 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 Automotive In-vehicle Camera CMOS Sensors that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This reports profiles key players in the global Automotive In-vehicle Camera CMOS Sensors 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, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Resolution $\leq 1.3\text{MP}$

Resolution 1.3MP-3MP

Resolution >3MP

Global Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors market?
2. What is the demand of the global Automotive In-vehicle Camera CMOS Sensors

market?

3. What is the year over year growth of the global Automotive In-vehicle Camera CMOS Sensors market?

4. What is the production and production value of the global Automotive In-vehicle Camera CMOS Sensors market?

5. Who are the key producers in the global Automotive In-vehicle Camera CMOS Sensors market?

6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Automotive In-vehicle Camera CMOS Sensors Introduction
- 1.2 World Automotive In-vehicle Camera CMOS Sensors Supply & Forecast
 - 1.2.1 World Automotive In-vehicle Camera CMOS Sensors Production Value (2018 & 2022 & 2029)
 - 1.2.2 World Automotive In-vehicle Camera CMOS Sensors Production (2018-2029)
 - 1.2.3 World Automotive In-vehicle Camera CMOS Sensors Pricing Trends (2018-2029)
- 1.3 World Automotive In-vehicle Camera CMOS Sensors Production by Region (Based on Production Site)
 - 1.3.1 World Automotive In-vehicle Camera CMOS Sensors Production Value by Region (2018-2029)
 - 1.3.2 World Automotive In-vehicle Camera CMOS Sensors Production by Region (2018-2029)
 - 1.3.3 World Automotive In-vehicle Camera CMOS Sensors Average Price by Region (2018-2029)
 - 1.3.4 North America Automotive In-vehicle Camera CMOS Sensors Production (2018-2029)
 - 1.3.5 Europe Automotive In-vehicle Camera CMOS Sensors Production (2018-2029)
 - 1.3.6 China Automotive In-vehicle Camera CMOS Sensors Production (2018-2029)
 - 1.3.7 Japan Automotive In-vehicle Camera CMOS Sensors Production (2018-2029)
 - 1.3.8 South Korea Automotive In-vehicle Camera CMOS Sensors Production (2018-2029)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Automotive In-vehicle Camera CMOS Sensors Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Automotive In-vehicle Camera CMOS Sensors Major Market Trends
- 1.5 Influence of COVID-19 and Russia-Ukraine War
 - 1.5.1 Influence of COVID-19
 - 1.5.2 Influence of Russia-Ukraine War

2 DEMAND SUMMARY

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

(2018-2023)

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

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

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

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

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

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

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

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

3 WORLD AUTOMOTIVE IN-VEHICLE CAMERA CMOS SENSORS MANUFACTURERS COMPETITIVE ANALYSIS

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

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

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

3.4 Automotive In-vehicle Camera CMOS Sensors Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

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

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

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

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

3.6.1 Automotive In-vehicle Camera CMOS Sensors Market: Region Footprint

3.6.2 Automotive In-vehicle Camera CMOS Sensors Market: Company Product Type Footprint

3.6.3 Automotive In-vehicle Camera CMOS Sensors 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: Automotive In-vehicle Camera CMOS Sensors Production Value Comparison

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

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

4.2 United States VS China: Automotive In-vehicle Camera CMOS Sensors Production Comparison

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

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

4.3 United States VS China: Automotive In-vehicle Camera CMOS Sensors Consumption Comparison

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

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

4.4 United States Based Automotive In-vehicle Camera CMOS Sensors Manufacturers and Market Share, 2018-2023

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

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

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

4.5 China Based Automotive In-vehicle Camera CMOS Sensors Manufacturers and Market Share

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

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

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

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

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

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

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

5 MARKET ANALYSIS BY TYPE

5.1 World Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors Production by Type (2018-2029)

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

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

6 MARKET ANALYSIS BY APPLICATION

6.1 World Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors Production by Application

(2018-2029)

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

6.3.3 World Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors Product and Services

7.1.4 On Semi Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors Product and Services

7.2.4 Omnivision Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors Product and Services

7.3.4 Sony Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors Product and Services

7.4.4 Panasonic Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors Product and Services

7.5.4 PIXELPLUS Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors Product and Services

7.6.4 STMicroelectronics Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors Product and Services

7.7.4 Samsung Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors Product and Services

7.8.4 Canon Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors Product and

Services

7.9.4 BYD Semiconductor Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors Product and Services

7.10.4 SmartSens Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors Product and Services

7.11.4 GalaxyCore Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors Industry Chain

8.2 Automotive In-vehicle Camera CMOS Sensors Upstream Analysis

8.2.1 Automotive In-vehicle Camera CMOS Sensors Core Raw Materials

8.2.2 Main Manufacturers of Automotive In-vehicle Camera CMOS Sensors Core Raw Materials

8.3 Midstream Analysis

8.4 Downstream Analysis

8.5 Automotive In-vehicle Camera CMOS Sensors Production Mode

8.6 Automotive In-vehicle Camera CMOS Sensors Procurement Model

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

8.7.1 Automotive In-vehicle Camera CMOS Sensors Sales Model

8.7.2 Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors Production Value by Region (2018, 2022 and 2029) & (USD Million)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 26. Automotive In-vehicle Camera CMOS Sensors Competitive Factors

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

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

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

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

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

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

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

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

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

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

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

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

Table 39. China Based Manufacturers Automotive In-vehicle Camera CMOS Sensors Production Value Market Share (2018-2023)

Table 40. China Based Manufacturers Automotive In-vehicle Camera CMOS Sensors Production (2018-2023) & (K Units)

Table 41. China Based Manufacturers Automotive In-vehicle Camera CMOS Sensors Production Market Share (2018-2023)

Table 42. Rest of World Based Automotive In-vehicle Camera CMOS Sensors Manufacturers, Headquarters and Production Site (States, Country)

Table 43. Rest of World Based Manufacturers Automotive In-vehicle Camera CMOS Sensors Production Value, (2018-2023) & (USD Million)

Table 44. Rest of World Based Manufacturers Automotive In-vehicle Camera CMOS Sensors Production Value Market Share (2018-2023)

Table 45. Rest of World Based Manufacturers Automotive In-vehicle Camera CMOS Sensors Production (2018-2023) & (K Units)

Table 46. Rest of World Based Manufacturers Automotive In-vehicle Camera CMOS Sensors Production Market Share (2018-2023)

Table 47. World Automotive In-vehicle Camera CMOS Sensors Production Value by Type, (USD Million), 2018 & 2022 & 2029

Table 48. World Automotive In-vehicle Camera CMOS Sensors Production by Type (2018-2023) & (K Units)

Table 49. World Automotive In-vehicle Camera CMOS Sensors Production by Type (2024-2029) & (K Units)

Table 50. World Automotive In-vehicle Camera CMOS Sensors Production Value by Type (2018-2023) & (USD Million)

Table 51. World Automotive In-vehicle Camera CMOS Sensors Production Value by Type (2024-2029) & (USD Million)

Table 52. World Automotive In-vehicle Camera CMOS Sensors Average Price by Type (2018-2023) & (US\$/Unit)

Table 53. World Automotive In-vehicle Camera CMOS Sensors Average Price by Type (2024-2029) & (US\$/Unit)

Table 54. World Automotive In-vehicle Camera CMOS Sensors Production Value by Application, (USD Million), 2018 & 2022 & 2029

Table 55. World Automotive In-vehicle Camera CMOS Sensors Production by Application (2018-2023) & (K Units)

Table 56. World Automotive In-vehicle Camera CMOS Sensors Production by Application (2024-2029) & (K Units)

Table 57. World Automotive In-vehicle Camera CMOS Sensors Production Value by Application (2018-2023) & (USD Million)

Table 58. World Automotive In-vehicle Camera CMOS Sensors Production Value by

Application (2024-2029) & (USD Million)

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

Table 60. World Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors Product and Services

Table 64. On Semi Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors Product and Services

Table 70. Omnivision Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors Product and Services

Table 76. Sony Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors Product and Services

Table 82. Panasonic Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors Product and Services
- Table 88. PIXELPLUS Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors Product and Services
- Table 94. STMicroelectronics Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors Product and Services
- Table 100. Samsung Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors Product and Services
- Table 106. Canon Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors Product and Services

Table 112. BYD Semiconductor Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors Product and Services

Table 118. SmartSens Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors Product and Services

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

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

Table 125. Automotive In-vehicle Camera CMOS Sensors Typical Customers

Table 126. Automotive In-vehicle Camera CMOS Sensors Typical Distributors

List of Figure

Figure 1. Automotive In-vehicle Camera CMOS Sensors Picture

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

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

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

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

Figure 6. World Automotive In-vehicle Camera CMOS Sensors Production Value Market Share by Region (2018-2029)

Figure 7. World Automotive In-vehicle Camera CMOS Sensors Production Market

Share by Region (2018-2029)

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

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

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

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

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

Figure 13. Automotive In-vehicle Camera CMOS Sensors Market Drivers

Figure 14. Factors Affecting Demand

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

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

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

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

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

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

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

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

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

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

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

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

Figure 27. United States VS China: Automotive In-vehicle Camera CMOS Sensors Production Value Market Share Comparison (2018 & 2022 & 2029)

Figure 28. United States VS China: Automotive In-vehicle Camera CMOS Sensors Production Market Share Comparison (2018 & 2022 & 2029)

Figure 29. United States VS China: Automotive In-vehicle Camera CMOS Sensors Consumption Market Share Comparison (2018 & 2022 & 2029)

Figure 30. United States Based Manufacturers Automotive In-vehicle Camera CMOS Sensors Production Market Share 2022

Figure 31. China Based Manufacturers Automotive In-vehicle Camera CMOS Sensors Production Market Share 2022

Figure 32. Rest of World Based Manufacturers Automotive In-vehicle Camera CMOS Sensors Production Market Share 2022

Figure 33. World Automotive In-vehicle Camera CMOS Sensors Production Value by Type, (USD Million), 2018 & 2022 & 2029

Figure 34. World Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors Production Market Share by Type (2018-2029)

Figure 39. World Automotive In-vehicle Camera CMOS Sensors Production Value Market Share by Type (2018-2029)

Figure 40. World Automotive In-vehicle Camera CMOS Sensors Average Price by Type (2018-2029) & (US\$/Unit)

Figure 41. World Automotive In-vehicle Camera CMOS Sensors Production Value by Application, (USD Million), 2018 & 2022 & 2029

Figure 42. World Automotive In-vehicle Camera CMOS Sensors 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 Automotive In-vehicle Camera CMOS Sensors Production Market Share by Application (2018-2029)

Figure 49. World Automotive In-vehicle Camera CMOS Sensors Production Value Market Share by Application (2018-2029)

Figure 50. World Automotive In-vehicle Camera CMOS Sensors Average Price by Application (2018-2029) & (US\$/Unit)

Figure 51. Automotive In-vehicle Camera CMOS Sensors Industry Chain

Figure 52. Automotive In-vehicle Camera CMOS Sensors Procurement Model

Figure 53. Automotive In-vehicle Camera CMOS Sensors Sales Model

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

Figure 55. Methodology

Figure 56. Research Process and Data Source

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