

Global High Pixel Automotive CMOS Image Sensors (CIS) Market Growth 2026-2032

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Abstracts

The global High Pixel Automotive CMOS Image Sensors (CIS) market size is predicted to grow from US\$ 890 million in 2025 to US\$ 1503 million in 2032; it is expected to grow at a CAGR of 7.7% from 2026 to 2032.

In 2025, global High Pixel Automotive CIS production reached approximately 293.5 million Units, with an average global market price of around US\$ 3.1 per unit.

High Pixel Automotive CIS refers to automotive-grade CMOS image sensors with pixel resolution of 8MP (megapixels) and above (the mainstream mid-range automotive CIS is 2MP-5MP). It is a high-performance variant of automotive CIS, designed to meet the high-precision environmental perception needs of mid-to-high level autonomous driving (L2-L4 level).

The CMOS image sensor industry chain presents a vertical hierarchical structure with clear division of labor, spanning from upstream core material and equipment supply, midstream sensor design, manufacturing and packaging, to downstream application terminal integration. The industry has strong technical barriers, high concentration of leading enterprises, and close collaborative links between upstream and downstream links.

I. Upstream: Core Materials & Equipment (Technical Core, High Barriers)

The upstream segment provides the essential materials, equipment and intellectual property (IP) required for CIS design and manufacturing, and is the foundation of the entire industry chain. The market is dominated by a small number of international enterprises.

1. Core Materials

Semiconductor Wafer Substrate for CIS: chip manufacturing, the most critical material with the highest cost.

Photoresist: Key material for photolithography process, determines pixel precision.

Metal Target Material: Used for depositing metal wiring layers (e.g., copper, aluminum).

Packaging Materials: Include lead frames, encapsulants, bonding wires, etc.

2. Manufacturing Equipment

The equipment accounts for a large proportion of CIS production costs, and the core links are monopolized by overseas enterprises:

Photolithography Machine: The core equipment for pixel pattern transfer, directly determines the pixel size and sensor resolution. The leading enterprise is ASML (EUV lithography machines are used for advanced process CIS).

Etching Equipment: Used for pattern processing of wafer layers, with representatives such as Applied Materials, Tokyo Electron (TEL).

Deposition Equipment: For film deposition of various material layers, leading manufacturers include Applied Materials, TEL.

Testing Equipment: Used for performance testing of CIS chips, such as Teradyne, Advantest.

3. IP & Design Tools

IP Authorization: Core technologies such as pixel structure (BSI/Stacked), global shutter, and HDR algorithms are mostly held by professional IP companies, such as ARM, Synopsys, Cadence.

EDA Tools: Essential for CIS circuit design, the market is monopolized by Synopsys, Cadence, and Mentor Graphics.

II. Midstream: CIS Design, Manufacturing & Packaging (Value Core, High Concentration)

The midstream is the core value link of the industry chain, covering three key links: chip design, wafer fabrication, and packaging and testing. The industry is divided into two business models: IDM (Integrated Device Manufacturer) and Fabless + Foundry + OSAT.

1. Chip Design (Fabless/IDM Design Division)

The link determines the technical route and performance parameters of CIS (e.g., pixel structure, resolution, dynamic range). It has high R&D investment and strong technical barriers, and the market concentration is extremely high.

IDM Mode Enterprises: Integrate design, manufacturing, packaging and testing, with strong technical strength. Representative enterprises: Sony Semiconductor Solutions, Samsung Electronics, OmniVision (partially self-manufactured).

Fabless Mode Enterprises: Focus on design, outsource manufacturing and packaging to third parties. Representative enterprises: On Semiconductor, SK Hynix, GalaxyCore.

2. Wafer Fabrication (Foundry)

It is responsible for manufacturing CIS chips according to the design scheme, and the advanced process (e.g., 45nm, 28nm) is the key to improving sensor performance.

Main Foundries: TSMC (the largest foundry, focusing on high-end stacked CIS), UMC, GlobalFoundries, SMIC (focusing on mid-to-low-end CIS process).

IDM Self-Manufacturing Lines: Sony and Samsung have their own advanced wafer factories, which can realize the rapid iteration of proprietary technologies (e.g., Sony's Stacked CMOS).

3. Packaging and Testing (OSAT)

The link directly affects the reliability, size and heat dissipation performance of CIS, and the advanced packaging technology is the key to miniaturization and high performance.

Traditional Packaging: Includes wire bonding, encapsulation, etc., suitable for mid-to-

low-end CIS, with manufacturers such as ASE Group, Amkor Technology.

Advanced Packaging: Flip-chip packaging (Flip Chip), wafer-level packaging (WLP), chip-scale packaging (CSP) are the mainstream, which can reduce the sensor size and improve the light sensitivity. Leading enterprises: ASE Group, Amkor, STATS ChipPAC.

Testing: Includes wafer testing (CP) and final testing (FT), to ensure the yield and performance consistency of CIS, with manufacturers such as Xcerra, Teradyne.

III. Downstream: Application Terminal Integration (Demand Core, Diversified Scenarios)

Downstream applications cover consumer electronics, automotive electronics, industrial detection, security monitoring, medical imaging and other fields. The demand of different scenarios drives the iteration of CIS technology, and the B2B field has become the main growth engine in recent years.

1. Consumer Electronics (Traditional Main Market, Gradual Saturation)

Application Scenarios: Smartphones (front and rear cameras), tablets, laptops, digital cameras, drones.

Demand Characteristics: Pursue high resolution (100MP+), small pixel size (0.7 μ m), stacked structure, but the market growth is slowing down with the saturation of smartphone shipments.

Key Customers: Apple, Samsung, Xiaomi, Huawei, DJI.

2. Automotive Electronics (Fastest Growing Track, High Barriers)

Application Scenarios: Vehicle-mounted cameras (front view, rear view, surround view, in-cabin monitoring), LiDAR supporting sensors, ADAS systems.

Demand Characteristics: Need to meet AEC-Q100 automotive-grade certification, with high requirements for high temperature resistance, anti-electromagnetic interference, high dynamic range (HDR > 120dB) and reliability. The single-vehicle CIS loading quantity can reach 8-16 units with the upgrade of autonomous driving.

Key Customers: Tesla, BYD, Volkswagen, Bosch, Continental.

3. Security Monitoring (Stable Demand, High Performance Requirements)

Application Scenarios: Network cameras (IPC), analog cameras, ball machines, video recorders (NVR).

Demand Characteristics: Emphasize low illumination imaging ability, wide dynamic range, and night vision effect. 4K high-definition and AI intelligent recognition are the main trends.

Key Customers: Hikvision, Dahua Technology, Uniview.

4. Industrial & Medical Fields (High Profit Margin, Professional Demand)

Industrial Detection: Machine vision cameras, semiconductor detection equipment, barcode scanners, requiring global shutter, high frame rate (thousands of frames/second) and high precision. Key customers: Keyence, Cognex.

Medical Imaging: Endoscopes, dental imaging equipment, portable detectors, requiring high signal-to-noise ratio, low radiation and miniaturization. Key customers: Olympus, Fujifilm.

IV. Industry Chain Characteristics & Profit Distribution

Profit Concentration: The upstream equipment and midstream design links occupy the highest profit margin, while the downstream application terminal profit margin is relatively low.

Technical Synergy: The iteration of downstream application demand (e.g., automotive high dynamic range, industrial global shutter) drives the R&D of midstream design and upstream material and equipment technologies, forming a positive feedback loop.

Regional Concentration: The upstream and midstream high-end links are concentrated in Japan, South Korea, the United States and Taiwan of China; the downstream application market is dominated by China, which is the largest CIS consumer market in the world.

LP Information, Inc. (LPI) ' newest research report, the "High Pixel Automotive CMOS Image Sensors (CIS) Industry Forecast" looks at past sales and reviews total world High Pixel Automotive CMOS Image Sensors (CIS) sales in 2025, providing a

comprehensive analysis by region and market sector of projected High Pixel Automotive CMOS Image Sensors (CIS) sales for 2026 through 2032. With High Pixel Automotive CMOS Image Sensors (CIS) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world High Pixel Automotive CMOS Image Sensors (CIS) industry.

This Insight Report provides a comprehensive analysis of the global High Pixel Automotive CMOS Image Sensors (CIS) 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 High Pixel Automotive CMOS Image Sensors (CIS) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global High Pixel Automotive CMOS Image Sensors (CIS) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High Pixel Automotive CMOS Image Sensors (CIS) 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 High Pixel Automotive CMOS Image Sensors (CIS).

This report presents a comprehensive overview, market shares, and growth opportunities of High Pixel Automotive CMOS Image Sensors (CIS) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Mid-high Pixel CIS (2-5M)

High-pixel CIS (5-8M)

Segmentation by the Installation Position and Function of the Vehicle:

Front-view CIS

Surround-view CIS

Rear-view CIS

In-cabin CIS

Side-view CIS

Segmentation by Photosensitive Structure:

Front Side Illuminated

Back Side Illuminated

Stacked CMOS Image Sensor

Segmentation by Application:

Commercial Vehicle

Passenger Vehicle

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.

SONY

Samsung

OmniVision

STMicroelectronics

On Semi

GalaxyCore

Panasonic

Smartsens Technology

Canon

SOI

PixelPlus

BYD

Key Questions Addressed in this Report

What is the 10-year outlook for the global High Pixel Automotive CMOS Image Sensors (CIS) market?

What factors are driving High Pixel Automotive CMOS Image Sensors (CIS) market growth, globally and by region?

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

How do High Pixel Automotive CMOS Image Sensors (CIS) market opportunities vary by end market size?

How does High Pixel Automotive CMOS Image Sensors (CIS) break out by Type, by

Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

2.1.1 Global High Pixel Automotive CMOS Image Sensors (CIS) Annual Sales 2021-2032

2.1.2 World Current & Future Analysis for High Pixel Automotive CMOS Image Sensors (CIS) by Geographic Region, 2021, 2025 & 2032

2.1.3 World Current & Future Analysis for High Pixel Automotive CMOS Image Sensors (CIS) by Country/Region, 2021, 2025 & 2032

2.2 High Pixel Automotive CMOS Image Sensors (CIS) Segment by Type

2.2.1 Mid-high Pixel CIS (2-5M)

2.2.2 High-pixel CIS (5-8M)

2.2.3 High Pixel Automotive CMOS Image Sensors (CIS) Sales by Type

2.2.3.1 Global High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share by Type (2021-2026)

2.2.3.2 Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue and Market Share by Type (2021-2026)

2.2.3.3 Global High Pixel Automotive CMOS Image Sensors (CIS) Sale Price by Type (2021-2026)

2.3 High Pixel Automotive CMOS Image Sensors (CIS) Segment by the Installation Position and Function of the Vehicle

2.3.1 Front-view CIS

2.3.2 Surround-view CIS

2.3.3 Rear-view CIS

2.3.4 In-cabin CIS

2.3.5 Side-view CIS

2.3.6 High Pixel Automotive CMOS Image Sensors (CIS) Sales by the Installation Position and Function of the Vehicle

2.3.6.1 Global High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share by the Installation Position and Function of the Vehicle (2021-2026)

2.3.6.2 Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue and Market Share by the Installation Position and Function of the Vehicle (2021-2026)

2.3.6.3 Global High Pixel Automotive CMOS Image Sensors (CIS) Sale Price by the Installation Position and Function of the Vehicle (2021-2026)

2.4 High Pixel Automotive CMOS Image Sensors (CIS) Segment by Photosensitive Structure

2.4.1 Front Side Illuminated

2.4.2 Back Side Illuminated

2.4.3 Stacked CMOS Image Sensor

2.4.4 High Pixel Automotive CMOS Image Sensors (CIS) Sales by Photosensitive Structure

2.4.4.1 Global High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share by Photosensitive Structure (2021-2026)

2.4.4.2 Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue and Market Share by Photosensitive Structure (2021-2026)

2.4.4.3 Global High Pixel Automotive CMOS Image Sensors (CIS) Sale Price by Photosensitive Structure (2021-2026)

2.5 High Pixel Automotive CMOS Image Sensors (CIS) Segment by Application

2.5.1 Commercial Vehicle

2.5.2 Passenger Vehicle

2.5.3 High Pixel Automotive CMOS Image Sensors (CIS) Sales by Application

2.5.3.1 Global High Pixel Automotive CMOS Image Sensors (CIS) Sale Market Share by Application (2021-2026)

2.5.3.2 Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue and Market Share by Application (2021-2026)

2.5.3.3 Global High Pixel Automotive CMOS Image Sensors (CIS) Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global High Pixel Automotive CMOS Image Sensors (CIS) Breakdown Data by Company

3.1.1 Global High Pixel Automotive CMOS Image Sensors (CIS) Annual Sales by Company (2021-2026)

3.1.2 Global High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share

by Company (2021-2026)

3.2 Global High Pixel Automotive CMOS Image Sensors (CIS) Annual Revenue by Company (2021-2026)

3.2.1 Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue by Company (2021-2026)

3.2.2 Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue Market Share by Company (2021-2026)

3.3 Global High Pixel Automotive CMOS Image Sensors (CIS) Sale Price by Company

3.4 Key Manufacturers High Pixel Automotive CMOS Image Sensors (CIS) Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers High Pixel Automotive CMOS Image Sensors (CIS) Product Location Distribution

3.4.2 Players High Pixel Automotive CMOS Image Sensors (CIS) Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR HIGH PIXEL AUTOMOTIVE CMOS IMAGE SENSORS (CIS) BY GEOGRAPHIC REGION

4.1 World Historic High Pixel Automotive CMOS Image Sensors (CIS) Market Size by Geographic Region (2021-2026)

4.1.1 Global High Pixel Automotive CMOS Image Sensors (CIS) Annual Sales by Geographic Region (2021-2026)

4.1.2 Global High Pixel Automotive CMOS Image Sensors (CIS) Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic High Pixel Automotive CMOS Image Sensors (CIS) Market Size by Country/Region (2021-2026)

4.2.1 Global High Pixel Automotive CMOS Image Sensors (CIS) Annual Sales by Country/Region (2021-2026)

4.2.2 Global High Pixel Automotive CMOS Image Sensors (CIS) Annual Revenue by Country/Region (2021-2026)

4.3 Americas High Pixel Automotive CMOS Image Sensors (CIS) Sales Growth

4.4 APAC High Pixel Automotive CMOS Image Sensors (CIS) Sales Growth

4.5 Europe High Pixel Automotive CMOS Image Sensors (CIS) Sales Growth

4.6 Middle East & Africa High Pixel Automotive CMOS Image Sensors (CIS) Sales Growth

5 AMERICAS

5.1 Americas High Pixel Automotive CMOS Image Sensors (CIS) Sales by Country

5.1.1 Americas High Pixel Automotive CMOS Image Sensors (CIS) Sales by Country (2021-2026)

5.1.2 Americas High Pixel Automotive CMOS Image Sensors (CIS) Revenue by Country (2021-2026)

5.2 Americas High Pixel Automotive CMOS Image Sensors (CIS) Sales by Type (2021-2026)

5.3 Americas High Pixel Automotive CMOS Image Sensors (CIS) Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC High Pixel Automotive CMOS Image Sensors (CIS) Sales by Region

6.1.1 APAC High Pixel Automotive CMOS Image Sensors (CIS) Sales by Region (2021-2026)

6.1.2 APAC High Pixel Automotive CMOS Image Sensors (CIS) Revenue by Region (2021-2026)

6.2 APAC High Pixel Automotive CMOS Image Sensors (CIS) Sales by Type (2021-2026)

6.3 APAC High Pixel Automotive CMOS Image Sensors (CIS) Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe High Pixel Automotive CMOS Image Sensors (CIS) by Country

7.1.1 Europe High Pixel Automotive CMOS Image Sensors (CIS) Sales by Country (2021-2026)

7.1.2 Europe High Pixel Automotive CMOS Image Sensors (CIS) Revenue by Country (2021-2026)

7.2 Europe High Pixel Automotive CMOS Image Sensors (CIS) Sales by Type (2021-2026)

7.3 Europe High Pixel Automotive CMOS Image Sensors (CIS) Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa High Pixel Automotive CMOS Image Sensors (CIS) by Country

8.1.1 Middle East & Africa High Pixel Automotive CMOS Image Sensors (CIS) Sales by Country (2021-2026)

8.1.2 Middle East & Africa High Pixel Automotive CMOS Image Sensors (CIS) Revenue by Country (2021-2026)

8.2 Middle East & Africa High Pixel Automotive CMOS Image Sensors (CIS) Sales by Type (2021-2026)

8.3 Middle East & Africa High Pixel Automotive CMOS Image Sensors (CIS) Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of High Pixel Automotive CMOS Image Sensors (CIS)

10.3 Manufacturing Process Analysis of High Pixel Automotive CMOS Image Sensors (CIS)

10.4 Industry Chain Structure of High Pixel Automotive CMOS Image Sensors (CIS)

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 High Pixel Automotive CMOS Image Sensors (CIS) Distributors

11.3 High Pixel Automotive CMOS Image Sensors (CIS) Customer

12 WORLD FORECAST REVIEW FOR HIGH PIXEL AUTOMOTIVE CMOS IMAGE SENSORS (CIS) BY GEOGRAPHIC REGION

12.1 Global High Pixel Automotive CMOS Image Sensors (CIS) Market Size Forecast by Region

12.1.1 Global High Pixel Automotive CMOS Image Sensors (CIS) Forecast by Region (2027-2032)

12.1.2 Global High Pixel Automotive CMOS Image Sensors (CIS) Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global High Pixel Automotive CMOS Image Sensors (CIS) Forecast by Type (2027-2032)

12.7 Global High Pixel Automotive CMOS Image Sensors (CIS) Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 SONY

13.1.1 SONY Company Information

13.1.2 SONY High Pixel Automotive CMOS Image Sensors (CIS) Product Portfolios and Specifications

- 13.1.3 SONY High Pixel Automotive CMOS Image Sensors (CIS) Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.1.4 SONY Main Business Overview
- 13.1.5 SONY Latest Developments
- 13.2 Samsung
 - 13.2.1 Samsung Company Information
 - 13.2.2 Samsung High Pixel Automotive CMOS Image Sensors (CIS) Product Portfolios and Specifications
 - 13.2.3 Samsung High Pixel Automotive CMOS Image Sensors (CIS) Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.2.4 Samsung Main Business Overview
 - 13.2.5 Samsung Latest Developments
- 13.3 OmniVision
 - 13.3.1 OmniVision Company Information
 - 13.3.2 OmniVision High Pixel Automotive CMOS Image Sensors (CIS) Product Portfolios and Specifications
 - 13.3.3 OmniVision High Pixel Automotive CMOS Image Sensors (CIS) Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 OmniVision Main Business Overview
 - 13.3.5 OmniVision Latest Developments
- 13.4 STMicroelectronics
 - 13.4.1 STMicroelectronics Company Information
 - 13.4.2 STMicroelectronics High Pixel Automotive CMOS Image Sensors (CIS) Product Portfolios and Specifications
 - 13.4.3 STMicroelectronics High Pixel Automotive CMOS Image Sensors (CIS) Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 STMicroelectronics Main Business Overview
 - 13.4.5 STMicroelectronics Latest Developments
- 13.5 On Semi
 - 13.5.1 On Semi Company Information
 - 13.5.2 On Semi High Pixel Automotive CMOS Image Sensors (CIS) Product Portfolios and Specifications
 - 13.5.3 On Semi High Pixel Automotive CMOS Image Sensors (CIS) Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 On Semi Main Business Overview
 - 13.5.5 On Semi Latest Developments
- 13.6 GalaxyCore
 - 13.6.1 GalaxyCore Company Information
 - 13.6.2 GalaxyCore High Pixel Automotive CMOS Image Sensors (CIS) Product

Portfolios and Specifications

13.6.3 GalaxyCore High Pixel Automotive CMOS Image Sensors (CIS) Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 GalaxyCore Main Business Overview

13.6.5 GalaxyCore Latest Developments

13.7 Panasonic

13.7.1 Panasonic Company Information

13.7.2 Panasonic High Pixel Automotive CMOS Image Sensors (CIS) Product Portfolios and Specifications

13.7.3 Panasonic High Pixel Automotive CMOS Image Sensors (CIS) Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Panasonic Main Business Overview

13.7.5 Panasonic Latest Developments

13.8 Smartsens Technology

13.8.1 Smartsens Technology Company Information

13.8.2 Smartsens Technology High Pixel Automotive CMOS Image Sensors (CIS) Product Portfolios and Specifications

13.8.3 Smartsens Technology High Pixel Automotive CMOS Image Sensors (CIS) Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Smartsens Technology Main Business Overview

13.8.5 Smartsens Technology Latest Developments

13.9 Canon

13.9.1 Canon Company Information

13.9.2 Canon High Pixel Automotive CMOS Image Sensors (CIS) Product Portfolios and Specifications

13.9.3 Canon High Pixel Automotive CMOS Image Sensors (CIS) Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Canon Main Business Overview

13.9.5 Canon Latest Developments

13.10 SOI

13.10.1 SOI Company Information

13.10.2 SOI High Pixel Automotive CMOS Image Sensors (CIS) Product Portfolios and Specifications

13.10.3 SOI High Pixel Automotive CMOS Image Sensors (CIS) Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 SOI Main Business Overview

13.10.5 SOI Latest Developments

13.11 PixelPlus

13.11.1 PixelPlus Company Information

13.11.2 PixelPlus High Pixel Automotive CMOS Image Sensors (CIS) Product Portfolios and Specifications

13.11.3 PixelPlus High Pixel Automotive CMOS Image Sensors (CIS) Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 PixelPlus Main Business Overview

13.11.5 PixelPlus Latest Developments

13.12 BYD

13.12.1 BYD Company Information

13.12.2 BYD High Pixel Automotive CMOS Image Sensors (CIS) Product Portfolios and Specifications

13.12.3 BYD High Pixel Automotive CMOS Image Sensors (CIS) Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 BYD Main Business Overview

13.12.5 BYD Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. High Pixel Automotive CMOS Image Sensors (CIS) Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. High Pixel Automotive CMOS Image Sensors (CIS) Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Mid-high Pixel CIS (2-5M)

Table 4. Major Players of High-pixel CIS (5-8M)

Table 5. Global High Pixel Automotive CMOS Image Sensors (CIS) Sales by Type (2021-2026) & (K Units)

Table 6. Global High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share by Type (2021-2026)

Table 7. Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue by Type (2021-2026) & (\$ million)

Table 8. Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue Market Share by Type (2021-2026)

Table 9. Global High Pixel Automotive CMOS Image Sensors (CIS) Sale Price by Type (2021-2026) & (US\$/Unit)

Table 10. Major Players of Front-view CIS

Table 11. Major Players of Surround-view CIS

Table 12. Major Players of Rear-view CIS

Table 13. Major Players of In-cabin CIS

Table 14. Major Players of Side-view CIS

Table 15. Global High Pixel Automotive CMOS Image Sensors (CIS) Sales by the Installation Position and Function of the Vehicle (2021-2026) & (K Units)

Table 16. Global High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share by the Installation Position and Function of the Vehicle (2021-2026)

Table 17. Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue by the Installation Position and Function of the Vehicle (2021-2026) & (\$ million)

Table 18. Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue Market Share by the Installation Position and Function of the Vehicle (2021-2026)

Table 19. Global High Pixel Automotive CMOS Image Sensors (CIS) Sale Price by the Installation Position and Function of the Vehicle (2021-2026) & (US\$/Unit)

Table 20. Major Players of Front Side Illuminated

Table 21. Major Players of Back Side Illuminated

Table 22. Major Players of Stacked CMOS Image Sensor

Table 23. Global High Pixel Automotive CMOS Image Sensors (CIS) Sales by

Photosensitive Structure (2021-2026) & (K Units)

Table 24. Global High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share by Photosensitive Structure (2021-2026)

Table 25. Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue by Photosensitive Structure (2021-2026) & (\$ million)

Table 26. Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue Market Share by Photosensitive Structure (2021-2026)

Table 27. Global High Pixel Automotive CMOS Image Sensors (CIS) Sale Price by Photosensitive Structure (2021-2026) & (US\$/Unit)

Table 28. Global High Pixel Automotive CMOS Image Sensors (CIS) Sale by Application (2021-2026) & (K Units)

Table 29. Global High Pixel Automotive CMOS Image Sensors (CIS) Sale Market Share by Application (2021-2026)

Table 30. Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue by Application (2021-2026) & (\$ million)

Table 31. Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue Market Share by Application (2021-2026)

Table 32. Global High Pixel Automotive CMOS Image Sensors (CIS) Sale Price by Application (2021-2026) & (US\$/Unit)

Table 33. Global High Pixel Automotive CMOS Image Sensors (CIS) Sales by Company (2021-2026) & (K Units)

Table 34. Global High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share by Company (2021-2026)

Table 35. Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue by Company (2021-2026) & (\$ millions)

Table 36. Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue Market Share by Company (2021-2026)

Table 37. Global High Pixel Automotive CMOS Image Sensors (CIS) Sale Price by Company (2021-2026) & (US\$/Unit)

Table 38. Key Manufacturers High Pixel Automotive CMOS Image Sensors (CIS) Producing Area Distribution and Sales Area

Table 39. Players High Pixel Automotive CMOS Image Sensors (CIS) Products Offered

Table 40. High Pixel Automotive CMOS Image Sensors (CIS) Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 41. New Products and Potential Entrants

Table 42. Market M&A Activity & Strategy

Table 43. Global High Pixel Automotive CMOS Image Sensors (CIS) Sales by Geographic Region (2021-2026) & (K Units)

Table 44. Global High Pixel Automotive CMOS Image Sensors (CIS) Sales Market

Share Geographic Region (2021-2026)

Table 45. Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 46. Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue Market Share by Geographic Region (2021-2026)

Table 47. Global High Pixel Automotive CMOS Image Sensors (CIS) Sales by Country/Region (2021-2026) & (K Units)

Table 48. Global High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share by Country/Region (2021-2026)

Table 49. Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue by Country/Region (2021-2026) & (\$ millions)

Table 50. Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue Market Share by Country/Region (2021-2026)

Table 51. Americas High Pixel Automotive CMOS Image Sensors (CIS) Sales by Country (2021-2026) & (K Units)

Table 52. Americas High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share by Country (2021-2026)

Table 53. Americas High Pixel Automotive CMOS Image Sensors (CIS) Revenue by Country (2021-2026) & (\$ millions)

Table 54. Americas High Pixel Automotive CMOS Image Sensors (CIS) Sales by Type (2021-2026) & (K Units)

Table 55. Americas High Pixel Automotive CMOS Image Sensors (CIS) Sales by Application (2021-2026) & (K Units)

Table 56. APAC High Pixel Automotive CMOS Image Sensors (CIS) Sales by Region (2021-2026) & (K Units)

Table 57. APAC High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share by Region (2021-2026)

Table 58. APAC High Pixel Automotive CMOS Image Sensors (CIS) Revenue by Region (2021-2026) & (\$ millions)

Table 59. APAC High Pixel Automotive CMOS Image Sensors (CIS) Sales by Type (2021-2026) & (K Units)

Table 60. APAC High Pixel Automotive CMOS Image Sensors (CIS) Sales by Application (2021-2026) & (K Units)

Table 61. Europe High Pixel Automotive CMOS Image Sensors (CIS) Sales by Country (2021-2026) & (K Units)

Table 62. Europe High Pixel Automotive CMOS Image Sensors (CIS) Revenue by Country (2021-2026) & (\$ millions)

Table 63. Europe High Pixel Automotive CMOS Image Sensors (CIS) Sales by Type (2021-2026) & (K Units)

Table 64. Europe High Pixel Automotive CMOS Image Sensors (CIS) Sales by Application (2021-2026) & (K Units)
Table 65. Middle East & Africa High Pixel Automotive CMOS Image Sensors (CIS) Sales by Country (2021-2026) & (K Units)
Table 66. Middle East & Africa High Pixel Automotive CMOS Image Sensors (CIS) Revenue Market Share by Country (2021-2026)
Table 67. Middle East & Africa High Pixel Automotive CMOS Image Sensors (CIS) Sales by Type (2021-2026) & (K Units)
Table 68. Middle East & Africa High Pixel Automotive CMOS Image Sensors (CIS) Sales by Application (2021-2026) & (K Units)
Table 69. Key Market Drivers & Growth Opportunities of High Pixel Automotive CMOS Image Sensors (CIS)
Table 70. Key Market Challenges & Risks of High Pixel Automotive CMOS Image Sensors (CIS)
Table 71. Key Industry Trends of High Pixel Automotive CMOS Image Sensors (CIS)
Table 72. High Pixel Automotive CMOS Image Sensors (CIS) Raw Material
Table 73. Key Suppliers of Raw Materials
Table 74. High Pixel Automotive CMOS Image Sensors (CIS) Distributors List
Table 75. High Pixel Automotive CMOS Image Sensors (CIS) Customer List
Table 76. Global High Pixel Automotive CMOS Image Sensors (CIS) Sales Forecast by Region (2027-2032) & (K Units)
Table 77. Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 78. Americas High Pixel Automotive CMOS Image Sensors (CIS) Sales Forecast by Country (2027-2032) & (K Units)
Table 79. Americas High Pixel Automotive CMOS Image Sensors (CIS) Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 80. APAC High Pixel Automotive CMOS Image Sensors (CIS) Sales Forecast by Region (2027-2032) & (K Units)
Table 81. APAC High Pixel Automotive CMOS Image Sensors (CIS) Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 82. Europe High Pixel Automotive CMOS Image Sensors (CIS) Sales Forecast by Country (2027-2032) & (K Units)
Table 83. Europe High Pixel Automotive CMOS Image Sensors (CIS) Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 84. Middle East & Africa High Pixel Automotive CMOS Image Sensors (CIS) Sales Forecast by Country (2027-2032) & (K Units)
Table 85. Middle East & Africa High Pixel Automotive CMOS Image Sensors (CIS) Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 86. Global High Pixel Automotive CMOS Image Sensors (CIS) Sales Forecast by Type (2027-2032) & (K Units)
Table 87. Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue Forecast by Type (2027-2032) & (\$ millions)
Table 88. Global High Pixel Automotive CMOS Image Sensors (CIS) Sales Forecast by Application (2027-2032) & (K Units)
Table 89. Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue Forecast by Application (2027-2032) & (\$ millions)
Table 90. SONY Basic Information, High Pixel Automotive CMOS Image Sensors (CIS) Manufacturing Base, Sales Area and Its Competitors
Table 91. SONY High Pixel Automotive CMOS Image Sensors (CIS) Product Portfolios and Specifications
Table 92. SONY High Pixel Automotive CMOS Image Sensors (CIS) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 93. SONY Main Business
Table 94. SONY Latest Developments
Table 95. Samsung Basic Information, High Pixel Automotive CMOS Image Sensors (CIS) Manufacturing Base, Sales Area and Its Competitors
Table 96. Samsung High Pixel Automotive CMOS Image Sensors (CIS) Product Portfolios and Specifications
Table 97. Samsung High Pixel Automotive CMOS Image Sensors (CIS) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 98. Samsung Main Business
Table 99. Samsung Latest Developments
Table 100. OmniVision Basic Information, High Pixel Automotive CMOS Image Sensors (CIS) Manufacturing Base, Sales Area and Its Competitors
Table 101. OmniVision High Pixel Automotive CMOS Image Sensors (CIS) Product Portfolios and Specifications
Table 102. OmniVision High Pixel Automotive CMOS Image Sensors (CIS) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 103. OmniVision Main Business
Table 104. OmniVision Latest Developments
Table 105. STMicroelectronics Basic Information, High Pixel Automotive CMOS Image Sensors (CIS) Manufacturing Base, Sales Area and Its Competitors
Table 106. STMicroelectronics High Pixel Automotive CMOS Image Sensors (CIS) Product Portfolios and Specifications
Table 107. STMicroelectronics High Pixel Automotive CMOS Image Sensors (CIS) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 108. STMicroelectronics Main Business

Table 109. STMicroelectronics Latest Developments

Table 110. On Semi Basic Information, High Pixel Automotive CMOS Image Sensors (CIS) Manufacturing Base, Sales Area and Its Competitors

Table 111. On Semi High Pixel Automotive CMOS Image Sensors (CIS) Product Portfolios and Specifications

Table 112. On Semi High Pixel Automotive CMOS Image Sensors (CIS) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 113. On Semi Main Business

Table 114. On Semi Latest Developments

Table 115. GalaxyCore Basic Information, High Pixel Automotive CMOS Image Sensors (CIS) Manufacturing Base, Sales Area and Its Competitors

Table 116. GalaxyCore High Pixel Automotive CMOS Image Sensors (CIS) Product Portfolios and Specifications

Table 117. GalaxyCore High Pixel Automotive CMOS Image Sensors (CIS) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 118. GalaxyCore Main Business

Table 119. GalaxyCore Latest Developments

Table 120. Panasonic Basic Information, High Pixel Automotive CMOS Image Sensors (CIS) Manufacturing Base, Sales Area and Its Competitors

Table 121. Panasonic High Pixel Automotive CMOS Image Sensors (CIS) Product Portfolios and Specifications

Table 122. Panasonic High Pixel Automotive CMOS Image Sensors (CIS) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 123. Panasonic Main Business

Table 124. Panasonic Latest Developments

Table 125. Smartsens Technology Basic Information, High Pixel Automotive CMOS Image Sensors (CIS) Manufacturing Base, Sales Area and Its Competitors

Table 126. Smartsens Technology High Pixel Automotive CMOS Image Sensors (CIS) Product Portfolios and Specifications

Table 127. Smartsens Technology High Pixel Automotive CMOS Image Sensors (CIS) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 128. Smartsens Technology Main Business

Table 129. Smartsens Technology Latest Developments

Table 130. Canon Basic Information, High Pixel Automotive CMOS Image Sensors (CIS) Manufacturing Base, Sales Area and Its Competitors

Table 131. Canon High Pixel Automotive CMOS Image Sensors (CIS) Product Portfolios and Specifications

Table 132. Canon High Pixel Automotive CMOS Image Sensors (CIS) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 133. Canon Main Business

Table 134. Canon Latest Developments

Table 135. SOI Basic Information, High Pixel Automotive CMOS Image Sensors (CIS) Manufacturing Base, Sales Area and Its Competitors

Table 136. SOI High Pixel Automotive CMOS Image Sensors (CIS) Product Portfolios and Specifications

Table 137. SOI High Pixel Automotive CMOS Image Sensors (CIS) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 138. SOI Main Business

Table 139. SOI Latest Developments

Table 140. PixelPlus Basic Information, High Pixel Automotive CMOS Image Sensors (CIS) Manufacturing Base, Sales Area and Its Competitors

Table 141. PixelPlus High Pixel Automotive CMOS Image Sensors (CIS) Product Portfolios and Specifications

Table 142. PixelPlus High Pixel Automotive CMOS Image Sensors (CIS) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 143. PixelPlus Main Business

Table 144. PixelPlus Latest Developments

Table 145. BYD Basic Information, High Pixel Automotive CMOS Image Sensors (CIS) Manufacturing Base, Sales Area and Its Competitors

Table 146. BYD High Pixel Automotive CMOS Image Sensors (CIS) Product Portfolios and Specifications

Table 147. BYD High Pixel Automotive CMOS Image Sensors (CIS) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 148. BYD Main Business

Table 149. BYD Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of High Pixel Automotive CMOS Image Sensors (CIS)
- Figure 2. High Pixel Automotive CMOS Image Sensors (CIS) Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global High Pixel Automotive CMOS Image Sensors (CIS) Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. High Pixel Automotive CMOS Image Sensors (CIS) Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share by Country/Region (2025)
- Figure 10. High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Mid-high Pixel CIS (2-5M)
- Figure 12. Product Picture of High-pixel CIS (5-8M)
- Figure 13. Global High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share by Type in 2026
- Figure 14. Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of Front-view CIS
- Figure 16. Product Picture of Surround-view CIS
- Figure 17. Product Picture of Rear-view CIS
- Figure 18. Product Picture of In-cabin CIS
- Figure 19. Product Picture of Side-view CIS
- Figure 20. Global High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share by the Installation Position and Function of the Vehicle in 2026
- Figure 21. Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue Market Share by the Installation Position and Function of the Vehicle (2021-2026)
- Figure 22. Product Picture of Front Side Illuminated
- Figure 23. Product Picture of Back Side Illuminated
- Figure 24. Product Picture of Stacked CMOS Image Sensor
- Figure 25. Global High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share by Photosensitive Structure in 2026

Figure 26. Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue Market Share by Photosensitive Structure (2021-2026)

Figure 27. High Pixel Automotive CMOS Image Sensors (CIS) Consumed in Commercial Vehicle

Figure 28. Global High Pixel Automotive CMOS Image Sensors (CIS) Market: Commercial Vehicle (2021-2026) & (K Units)

Figure 29. High Pixel Automotive CMOS Image Sensors (CIS) Consumed in Passenger Vehicle

Figure 30. Global High Pixel Automotive CMOS Image Sensors (CIS) Market: Passenger Vehicle (2021-2026) & (K Units)

Figure 31. Global High Pixel Automotive CMOS Image Sensors (CIS) Sale Market Share by Application (2025)

Figure 32. Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue Market Share by Application in 2026

Figure 33. High Pixel Automotive CMOS Image Sensors (CIS) Sales by Company in 2026 (K Units)

Figure 34. Global High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share by Company in 2026

Figure 35. High Pixel Automotive CMOS Image Sensors (CIS) Revenue by Company in 2026 (\$ millions)

Figure 36. Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue Market Share by Company in 2026

Figure 37. Global High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share by Geographic Region (2021-2026)

Figure 38. Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue Market Share by Geographic Region in 2026

Figure 39. Americas High Pixel Automotive CMOS Image Sensors (CIS) Sales 2021-2026 (K Units)

Figure 40. Americas High Pixel Automotive CMOS Image Sensors (CIS) Revenue 2021-2026 (\$ millions)

Figure 41. APAC High Pixel Automotive CMOS Image Sensors (CIS) Sales 2021-2026 (K Units)

Figure 42. APAC High Pixel Automotive CMOS Image Sensors (CIS) Revenue 2021-2026 (\$ millions)

Figure 43. Europe High Pixel Automotive CMOS Image Sensors (CIS) Sales 2021-2026 (K Units)

Figure 44. Europe High Pixel Automotive CMOS Image Sensors (CIS) Revenue 2021-2026 (\$ millions)

Figure 45. Middle East & Africa High Pixel Automotive CMOS Image Sensors (CIS)

Sales 2021-2026 (K Units)

Figure 46. Middle East & Africa High Pixel Automotive CMOS Image Sensors (CIS)

Revenue 2021-2026 (\$ millions)

Figure 47. Americas High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share by Country in 2026

Figure 48. Americas High Pixel Automotive CMOS Image Sensors (CIS) Revenue Market Share by Country (2021-2026)

Figure 49. Americas High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share by Type (2021-2026)

Figure 50. Americas High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share by Application (2021-2026)

Figure 51. United States High Pixel Automotive CMOS Image Sensors (CIS) Revenue Growth 2021-2026 (\$ millions)

Figure 52. Canada High Pixel Automotive CMOS Image Sensors (CIS) Revenue Growth 2021-2026 (\$ millions)

Figure 53. Mexico High Pixel Automotive CMOS Image Sensors (CIS) Revenue Growth 2021-2026 (\$ millions)

Figure 54. Brazil High Pixel Automotive CMOS Image Sensors (CIS) Revenue Growth 2021-2026 (\$ millions)

Figure 55. APAC High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share by Region in 2026

Figure 56. APAC High Pixel Automotive CMOS Image Sensors (CIS) Revenue Market Share by Region (2021-2026)

Figure 57. APAC High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share by Type (2021-2026)

Figure 58. APAC High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share by Application (2021-2026)

Figure 59. China High Pixel Automotive CMOS Image Sensors (CIS) Revenue Growth 2021-2026 (\$ millions)

Figure 60. Japan High Pixel Automotive CMOS Image Sensors (CIS) Revenue Growth 2021-2026 (\$ millions)

Figure 61. South Korea High Pixel Automotive CMOS Image Sensors (CIS) Revenue Growth 2021-2026 (\$ millions)

Figure 62. Southeast Asia High Pixel Automotive CMOS Image Sensors (CIS) Revenue Growth 2021-2026 (\$ millions)

Figure 63. India High Pixel Automotive CMOS Image Sensors (CIS) Revenue Growth 2021-2026 (\$ millions)

Figure 64. Australia High Pixel Automotive CMOS Image Sensors (CIS) Revenue Growth 2021-2026 (\$ millions)

Figure 65. China Taiwan High Pixel Automotive CMOS Image Sensors (CIS) Revenue Growth 2021-2026 (\$ millions)

Figure 66. Europe High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share by Country in 2026

Figure 67. Europe High Pixel Automotive CMOS Image Sensors (CIS) Revenue Market Share by Country (2021-2026)

Figure 68. Europe High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share by Type (2021-2026)

Figure 69. Europe High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share by Application (2021-2026)

Figure 70. Germany High Pixel Automotive CMOS Image Sensors (CIS) Revenue Growth 2021-2026 (\$ millions)

Figure 71. France High Pixel Automotive CMOS Image Sensors (CIS) Revenue Growth 2021-2026 (\$ millions)

Figure 72. UK High Pixel Automotive CMOS Image Sensors (CIS) Revenue Growth 2021-2026 (\$ millions)

Figure 73. Italy High Pixel Automotive CMOS Image Sensors (CIS) Revenue Growth 2021-2026 (\$ millions)

Figure 74. Russia High Pixel Automotive CMOS Image Sensors (CIS) Revenue Growth 2021-2026 (\$ millions)

Figure 75. Middle East & Africa High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share by Country (2021-2026)

Figure 76. Middle East & Africa High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share by Type (2021-2026)

Figure 77. Middle East & Africa High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share by Application (2021-2026)

Figure 78. Egypt High Pixel Automotive CMOS Image Sensors (CIS) Revenue Growth 2021-2026 (\$ millions)

Figure 79. South Africa High Pixel Automotive CMOS Image Sensors (CIS) Revenue Growth 2021-2026 (\$ millions)

Figure 80. Israel High Pixel Automotive CMOS Image Sensors (CIS) Revenue Growth 2021-2026 (\$ millions)

Figure 81. Turkey High Pixel Automotive CMOS Image Sensors (CIS) Revenue Growth 2021-2026 (\$ millions)

Figure 82. GCC Countries High Pixel Automotive CMOS Image Sensors (CIS) Revenue Growth 2021-2026 (\$ millions)

Figure 83. Manufacturing Cost Structure Analysis of High Pixel Automotive CMOS Image Sensors (CIS) in 2026

Figure 84. Manufacturing Process Analysis of High Pixel Automotive CMOS Image

Sensors (CIS)

Figure 85. Industry Chain Structure of High Pixel Automotive CMOS Image Sensors (CIS)

Figure 86. Channels of Distribution

Figure 87. Global High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Forecast by Region (2027-2032)

Figure 88. Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue Market Share Forecast by Region (2027-2032)

Figure 89. Global High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share Forecast by Type (2027-2032)

Figure 90. Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue Market Share Forecast by Type (2027-2032)

Figure 91. Global High Pixel Automotive CMOS Image Sensors (CIS) Sales Market Share Forecast by Application (2027-2032)

Figure 92. Global High Pixel Automotive CMOS Image Sensors (CIS) Revenue Market Share Forecast by Application (2027-2032)

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