

Global Automotive-grade RGB-IR Image Sensor Market Research Report 2026(Status and Outlook)

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Abstracts

The automotive-grade RGB-IR image sensor is a high-reliability image sensor designed for automotive applications that can capture RGB (red, green, blue) and IR (infrared) spectral information simultaneously. It combines the perception capabilities of visible and infrared light and is suitable for scenarios such as driver assistance, night vision systems, occupant monitoring, and gesture recognition. Such sensors usually meet automotive standards (such as AEC-Q100), have a wide temperature range, high durability, and anti-interference capabilities to ensure stable performance in complex in-vehicle environments. RGB-IR Advantages: One sensor captures both spectra, saving cost and space (no additional camera or mechanically moving filters required). RGB-IR Disadvantages: Lower resolution due to combining RGB and IR channel sampling into a single CFA pattern, and infrared contamination of the color channels in high infrared lighting conditions (sunlight, incandescent lamps), resulting in strange colors.

The global Automotive-grade RGB-IR Image Sensor market size was estimated at USD 198.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 13.60% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Automotive-grade RGB-IR Image Sensor market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current

status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Automotive-grade RGB-IR Image Sensor market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Automotive-grade RGB-IR Image Sensor market.

Global Automotive-grade RGB-IR Image Sensor Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

onsemi
ams-OSRAM
STMicroelectronics
Sony
Teledyne e2v
Canon
OmniVision Technologies
SmartSens
Silicon Optonics

Market Segmentation (by Type)

2MP
5MP
Others

Market Segmentation (by Application)

Cockpit Monitoring
Driving Assistance
Other

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Automotive-grade RGB-IR Image Sensor Market
Overview of the regional outlook of the Automotive-grade RGB-IR Image Sensor Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Automotive-grade RGB-IR Image Sensor Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Automotive-grade RGB-IR Image Sensor, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail,

including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Automotive-grade RGB-IR Image Sensor
- 1.2 Key Market Segments
 - 1.2.1 Automotive-grade RGB-IR Image Sensor Segment by Type
 - 1.2.2 Automotive-grade RGB-IR Image Sensor Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 AUTOMOTIVE-GRADE RGB-IR IMAGE SENSOR MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Automotive-grade RGB-IR Image Sensor Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Automotive-grade RGB-IR Image Sensor Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 AUTOMOTIVE-GRADE RGB-IR IMAGE SENSOR MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Automotive-grade RGB-IR Image Sensor Product Life Cycle
- 3.3 Global Automotive-grade RGB-IR Image Sensor Sales by Manufacturers (2020-2025)
- 3.4 Global Automotive-grade RGB-IR Image Sensor Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Automotive-grade RGB-IR Image Sensor Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Automotive-grade RGB-IR Image Sensor Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Automotive-grade RGB-IR Image Sensor Market Competitive Situation and Trends

3.8.1 Automotive-grade RGB-IR Image Sensor Market Concentration Rate

3.8.2 Global 5 and 10 Largest Automotive-grade RGB-IR Image Sensor Players

Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 AUTOMOTIVE-GRADE RGB-IR IMAGE SENSOR INDUSTRY CHAIN ANALYSIS

4.1 Automotive-grade RGB-IR Image Sensor Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF AUTOMOTIVE-GRADE RGB-IR IMAGE SENSOR MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Automotive-grade RGB-IR Image Sensor Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Automotive-grade RGB-IR Image Sensor Market

5.7 ESG Ratings of Leading Companies

6 AUTOMOTIVE-GRADE RGB-IR IMAGE SENSOR MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Automotive-grade RGB-IR Image Sensor Sales Market Share by Type (2020-2025)
- 6.3 Global Automotive-grade RGB-IR Image Sensor Market Size by Type (2020-2025)
- 6.4 Global Automotive-grade RGB-IR Image Sensor Price by Type (2020-2025)

7 AUTOMOTIVE-GRADE RGB-IR IMAGE SENSOR MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Automotive-grade RGB-IR Image Sensor Market Sales by Application (2020-2025)
- 7.3 Global Automotive-grade RGB-IR Image Sensor Market Size (M USD) by Application (2020-2025)
- 7.4 Global Automotive-grade RGB-IR Image Sensor Sales Growth Rate by Application (2020-2025)

8 AUTOMOTIVE-GRADE RGB-IR IMAGE SENSOR MARKET SALES BY REGION

- 8.1 Global Automotive-grade RGB-IR Image Sensor Sales by Region
 - 8.1.1 Global Automotive-grade RGB-IR Image Sensor Sales by Region
 - 8.1.2 Global Automotive-grade RGB-IR Image Sensor Sales Market Share by Region
- 8.2 Global Automotive-grade RGB-IR Image Sensor Market Size by Region
 - 8.2.1 Global Automotive-grade RGB-IR Image Sensor Market Size by Region
 - 8.2.2 Global Automotive-grade RGB-IR Image Sensor Market Size by Region
- 8.3 North America
 - 8.3.1 North America Automotive-grade RGB-IR Image Sensor Sales by Country
 - 8.3.2 North America Automotive-grade RGB-IR Image Sensor Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Automotive-grade RGB-IR Image Sensor Sales by Country
 - 8.4.2 Europe Automotive-grade RGB-IR Image Sensor Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Automotive-grade RGB-IR Image Sensor Sales by Region

8.5.2 Asia Pacific Automotive-grade RGB-IR Image Sensor Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

8.5.5 South Korea Market Overview

8.5.6 India Market Overview

8.5.7 Southeast Asia Market Overview

8.6 South America

8.6.1 South America Automotive-grade RGB-IR Image Sensor Sales by Country

8.6.2 South America Automotive-grade RGB-IR Image Sensor Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa Automotive-grade RGB-IR Image Sensor Sales by Region

8.7.2 Middle East and Africa Automotive-grade RGB-IR Image Sensor Market Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

9 AUTOMOTIVE-GRADE RGB-IR IMAGE SENSOR MARKET PRODUCTION BY REGION

9.1 Global Production of Automotive-grade RGB-IR Image Sensor by Region(2020-2025)

9.2 Global Automotive-grade RGB-IR Image Sensor Revenue Market Share by Region (2020-2025)

9.3 Global Automotive-grade RGB-IR Image Sensor Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America Automotive-grade RGB-IR Image Sensor Production

9.4.1 North America Automotive-grade RGB-IR Image Sensor Production Growth Rate (2020-2025)

9.4.2 North America Automotive-grade RGB-IR Image Sensor Production, Revenue,

Price and Gross Margin (2020-2025)

9.5 Europe Automotive-grade RGB-IR Image Sensor Production

9.5.1 Europe Automotive-grade RGB-IR Image Sensor Production Growth Rate (2020-2025)

9.5.2 Europe Automotive-grade RGB-IR Image Sensor Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Automotive-grade RGB-IR Image Sensor Production (2020-2025)

9.6.1 Japan Automotive-grade RGB-IR Image Sensor Production Growth Rate (2020-2025)

9.6.2 Japan Automotive-grade RGB-IR Image Sensor Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Automotive-grade RGB-IR Image Sensor Production (2020-2025)

9.7.1 China Automotive-grade RGB-IR Image Sensor Production Growth Rate (2020-2025)

9.7.2 China Automotive-grade RGB-IR Image Sensor Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 onsemi

10.1.1 onsemi Basic Information

10.1.2 onsemi Automotive-grade RGB-IR Image Sensor Product Overview

10.1.3 onsemi Automotive-grade RGB-IR Image Sensor Product Market Performance

10.1.4 onsemi Business Overview

10.1.5 onsemi SWOT Analysis

10.1.6 onsemi Recent Developments

10.2 ams-OSRAM

10.2.1 ams-OSRAM Basic Information

10.2.2 ams-OSRAM Automotive-grade RGB-IR Image Sensor Product Overview

10.2.3 ams-OSRAM Automotive-grade RGB-IR Image Sensor Product Market Performance

10.2.4 ams-OSRAM Business Overview

10.2.5 ams-OSRAM SWOT Analysis

10.2.6 ams-OSRAM Recent Developments

10.3 STMicroelectronics

10.3.1 STMicroelectronics Basic Information

10.3.2 STMicroelectronics Automotive-grade RGB-IR Image Sensor Product Overview

10.3.3 STMicroelectronics Automotive-grade RGB-IR Image Sensor Product Market Performance

- 10.3.4 STMicroelectronics Business Overview
- 10.3.5 STMicroelectronics SWOT Analysis
- 10.3.6 STMicroelectronics Recent Developments
- 10.4 Sony
 - 10.4.1 Sony Basic Information
 - 10.4.2 Sony Automotive-grade RGB-IR Image Sensor Product Overview
 - 10.4.3 Sony Automotive-grade RGB-IR Image Sensor Product Market Performance
 - 10.4.4 Sony Business Overview
 - 10.4.5 Sony Recent Developments
- 10.5 Teledyne e2v
 - 10.5.1 Teledyne e2v Basic Information
 - 10.5.2 Teledyne e2v Automotive-grade RGB-IR Image Sensor Product Overview
 - 10.5.3 Teledyne e2v Automotive-grade RGB-IR Image Sensor Product Market Performance
 - 10.5.4 Teledyne e2v Business Overview
 - 10.5.5 Teledyne e2v Recent Developments
- 10.6 Canon
 - 10.6.1 Canon Basic Information
 - 10.6.2 Canon Automotive-grade RGB-IR Image Sensor Product Overview
 - 10.6.3 Canon Automotive-grade RGB-IR Image Sensor Product Market Performance
 - 10.6.4 Canon Business Overview
 - 10.6.5 Canon Recent Developments
- 10.7 OmniVision Technologies
 - 10.7.1 OmniVision Technologies Basic Information
 - 10.7.2 OmniVision Technologies Automotive-grade RGB-IR Image Sensor Product Overview
 - 10.7.3 OmniVision Technologies Automotive-grade RGB-IR Image Sensor Product Market Performance
 - 10.7.4 OmniVision Technologies Business Overview
 - 10.7.5 OmniVision Technologies Recent Developments
- 10.8 SmartSens
 - 10.8.1 SmartSens Basic Information
 - 10.8.2 SmartSens Automotive-grade RGB-IR Image Sensor Product Overview
 - 10.8.3 SmartSens Automotive-grade RGB-IR Image Sensor Product Market Performance
 - 10.8.4 SmartSens Business Overview
 - 10.8.5 SmartSens Recent Developments
- 10.9 Silicon Optronics
 - 10.9.1 Silicon Optronics Basic Information

- 10.9.2 Silicon Optronics Automotive-grade RGB-IR Image Sensor Product Overview
- 10.9.3 Silicon Optronics Automotive-grade RGB-IR Image Sensor Product Market Performance
- 10.9.4 Silicon Optronics Business Overview
- 10.9.5 Silicon Optronics Recent Developments

11 AUTOMOTIVE-GRADE RGB-IR IMAGE SENSOR MARKET FORECAST BY REGION

- 11.1 Global Automotive-grade RGB-IR Image Sensor Market Size Forecast
- 11.2 Global Automotive-grade RGB-IR Image Sensor Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe Automotive-grade RGB-IR Image Sensor Market Size Forecast by Country
 - 11.2.3 Asia Pacific Automotive-grade RGB-IR Image Sensor Market Size Forecast by Region
 - 11.2.4 South America Automotive-grade RGB-IR Image Sensor Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of Automotive-grade RGB-IR Image Sensor by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

- 12.1 Global Automotive-grade RGB-IR Image Sensor Market Forecast by Type (2026-2035)
 - 12.1.1 Global Forecasted Sales of Automotive-grade RGB-IR Image Sensor by Type (2026-2035)
 - 12.1.2 Global Automotive-grade RGB-IR Image Sensor Market Size Forecast by Type (2026-2035)
 - 12.1.3 Global Forecasted Price of Automotive-grade RGB-IR Image Sensor by Type (2026-2035)
- 12.2 Global Automotive-grade RGB-IR Image Sensor Market Forecast by Application (2026-2035)
 - 12.2.1 Global Automotive-grade RGB-IR Image Sensor Sales (K Units) Forecast by Application
 - 12.2.2 Global Automotive-grade RGB-IR Image Sensor Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Automotive-grade RGB-IR Image Sensor Market Size by Type (M USD)

Table 4. Global Automotive-grade RGB-IR Image Sensor Market Size by Application

Table 5. Automotive-grade RGB-IR Image Sensor Market Size Comparison by Region (M USD)

Table 6. Global Automotive-grade RGB-IR Image Sensor Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global Automotive-grade RGB-IR Image Sensor Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Automotive-grade RGB-IR Image Sensor Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Automotive-grade RGB-IR Image Sensor Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Automotive-grade RGB-IR Image Sensor as of 2025)

Table 11. Global Market Automotive-grade RGB-IR Image Sensor Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Automotive-grade RGB-IR Image Sensor Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Automotive-grade RGB-IR Image Sensor Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Automotive-grade RGB-IR Image Sensor Sales by Type (K Units)

Table 27. Global Automotive-grade RGB-IR Image Sensor Market Size by Type (M USD)

Table 28. Global Automotive-grade RGB-IR Image Sensor Sales (K Units) by Type (2020-2025)

Table 29. Global Automotive-grade RGB-IR Image Sensor Sales Market Share by Type (2020-2025)

Table 30. Global Automotive-grade RGB-IR Image Sensor Market Size (M USD) by Type (2020-2025)

Table 31. Global Automotive-grade RGB-IR Image Sensor Market Share by Type (2020-2025)

Table 32. Global Automotive-grade RGB-IR Image Sensor Price (USD/Unit) by Type (2020-2025)

Table 33. Global Automotive-grade RGB-IR Image Sensor Sales (K Units) by Application

Table 34. Global Automotive-grade RGB-IR Image Sensor Market Size by Application

Table 35. Global Automotive-grade RGB-IR Image Sensor Sales by Application (2020-2025) & (K Units)

Table 36. Global Automotive-grade RGB-IR Image Sensor Sales Market Share by Application (2020-2025)

Table 37. Global Automotive-grade RGB-IR Image Sensor Market Size by Application (2020-2025) & (M USD)

Table 38. Global Automotive-grade RGB-IR Image Sensor Market Share by Application (2020-2025)

Table 39. Global Automotive-grade RGB-IR Image Sensor Sales Growth Rate by Application (2020-2025)

Table 40. Global Automotive-grade RGB-IR Image Sensor Sales by Region (2020-2025) & (K Units)

Table 41. Global Automotive-grade RGB-IR Image Sensor Sales Market Share by Region (2020-2025)

Table 42. Global Automotive-grade RGB-IR Image Sensor Market Size by Region (2020-2025) & (M USD)

Table 43. Global Automotive-grade RGB-IR Image Sensor Market Size by Region (2020-2025)

Table 44. North America Automotive-grade RGB-IR Image Sensor Sales by Country (2020-2025) & (K Units)

Table 45. North America Automotive-grade RGB-IR Image Sensor Market Size by Country (2020-2025) & (M USD)

Table 46. Europe Automotive-grade RGB-IR Image Sensor Sales by Country (2020-2025) & (K Units)

Table 47. Europe Automotive-grade RGB-IR Image Sensor Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific Automotive-grade RGB-IR Image Sensor Sales by Region (2020-2025) & (K Units)

Table 49. Asia Pacific Automotive-grade RGB-IR Image Sensor Market Size by Region (2020-2025) & (M USD)

Table 50. South America Automotive-grade RGB-IR Image Sensor Sales by Country (2020-2025) & (K Units)

Table 51. South America Automotive-grade RGB-IR Image Sensor Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa Automotive-grade RGB-IR Image Sensor Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa Automotive-grade RGB-IR Image Sensor Market Size by Region (2020-2025) & (M USD)

Table 54. Global Automotive-grade RGB-IR Image Sensor Production (K Units) by Region(2020-2025)

Table 55. Global Automotive-grade RGB-IR Image Sensor Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Automotive-grade RGB-IR Image Sensor Revenue Market Share by Region (2020-2025)

Table 57. Global Automotive-grade RGB-IR Image Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Automotive-grade RGB-IR Image Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Automotive-grade RGB-IR Image Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Automotive-grade RGB-IR Image Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Automotive-grade RGB-IR Image Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. onsemi Basic Information

Table 63. onsemi Automotive-grade RGB-IR Image Sensor Product Overview

Table 64. onsemi Automotive-grade RGB-IR Image Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. onsemi Business Overview

Table 66. onsemi SWOT Analysis

Table 67. onsemi Recent Developments

Table 68. ams-OSRAM Basic Information

Table 69. ams-OSRAM Automotive-grade RGB-IR Image Sensor Product Overview

Table 70. ams-OSRAM Automotive-grade RGB-IR Image Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. ams-OSRAM Business Overview

Table 72. ams-OSRAM SWOT Analysis

Table 73. ams-OSRAM Recent Developments

Table 74. STMicroelectronics Basic Information

Table 75. STMicroelectronics Automotive-grade RGB-IR Image Sensor Product Overview

Table 76. STMicroelectronics Automotive-grade RGB-IR Image Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. STMicroelectronics Business Overview

Table 78. STMicroelectronics SWOT Analysis

Table 79. STMicroelectronics Recent Developments

Table 80. Sony Basic Information

Table 81. Sony Automotive-grade RGB-IR Image Sensor Product Overview

Table 82. Sony Automotive-grade RGB-IR Image Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 83. Sony Business Overview

Table 84. Sony Recent Developments

Table 85. Teledyne e2v Basic Information

Table 86. Teledyne e2v Automotive-grade RGB-IR Image Sensor Product Overview

Table 87. Teledyne e2v Automotive-grade RGB-IR Image Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 88. Teledyne e2v Business Overview

Table 89. Teledyne e2v Recent Developments

Table 90. Canon Basic Information

Table 91. Canon Automotive-grade RGB-IR Image Sensor Product Overview

Table 92. Canon Automotive-grade RGB-IR Image Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 93. Canon Business Overview

Table 94. Canon Recent Developments

Table 95. OmniVision Technologies Basic Information

Table 96. OmniVision Technologies Automotive-grade RGB-IR Image Sensor Product Overview

Table 97. OmniVision Technologies Automotive-grade RGB-IR Image Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 98. OmniVision Technologies Business Overview

Table 99. OmniVision Technologies Recent Developments

Table 100. SmartSens Basic Information

Table 101. SmartSens Automotive-grade RGB-IR Image Sensor Product Overview

Table 102. SmartSens Automotive-grade RGB-IR Image Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 103. SmartSens Business Overview

Table 104. SmartSens Recent Developments

Table 105. Silicon Optronics Basic Information

Table 106. Silicon Optronics Automotive-grade RGB-IR Image Sensor Product Overview

Table 107. Silicon Optronics Automotive-grade RGB-IR Image Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 108. Silicon Optronics Business Overview

Table 109. Silicon Optronics Recent Developments

Table 110. Global Automotive-grade RGB-IR Image Sensor Sales Forecast by Region (2026-2035) & (K Units)

Table 111. Global Automotive-grade RGB-IR Image Sensor Market Size Forecast by Region (2026-2035) & (M USD)

Table 112. North America Automotive-grade RGB-IR Image Sensor Sales Forecast by Country (2026-2035) & (K Units)

Table 113. North America Automotive-grade RGB-IR Image Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 114. Europe Automotive-grade RGB-IR Image Sensor Sales Forecast by Country (2026-2035) & (K Units)

Table 115. Europe Automotive-grade RGB-IR Image Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 116. Asia Pacific Automotive-grade RGB-IR Image Sensor Sales Forecast by Region (2026-2035) & (K Units)

Table 117. Asia Pacific Automotive-grade RGB-IR Image Sensor Market Size Forecast by Region (2026-2035) & (M USD)

Table 118. South America Automotive-grade RGB-IR Image Sensor Sales Forecast by Country (2026-2035) & (K Units)

Table 119. South America Automotive-grade RGB-IR Image Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 120. Middle East and Africa Automotive-grade RGB-IR Image Sensor Sales Forecast by Country (2026-2035) & (Units)

Table 121. Middle East and Africa Automotive-grade RGB-IR Image Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 122. Global Automotive-grade RGB-IR Image Sensor Sales Forecast by Type (2026-2035) & (K Units)

Table 123. Global Automotive-grade RGB-IR Image Sensor Market Size Forecast by

Type (2026-2035) & (M USD)

Table 124. Global Automotive-grade RGB-IR Image Sensor Price Forecast by Type (2026-2035) & (USD/Unit)

Table 125. Global Automotive-grade RGB-IR Image Sensor Sales (K Units) Forecast by Application (2026-2035)

Table 126. Global Automotive-grade RGB-IR Image Sensor Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Automotive-grade RGB-IR Image Sensor
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Automotive-grade RGB-IR Image Sensor Market Size (M USD), 2025-2035
- Figure 5. Global Automotive-grade RGB-IR Image Sensor Market Size (M USD) (2020-2035)
- Figure 6. Global Automotive-grade RGB-IR Image Sensor Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Automotive-grade RGB-IR Image Sensor Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Automotive-grade RGB-IR Image Sensor Product Life Cycle
- Figure 13. Automotive-grade RGB-IR Image Sensor Sales Share by Manufacturers in 2025
- Figure 14. Global Automotive-grade RGB-IR Image Sensor Revenue Share by Manufacturers in 2025
- Figure 15. Automotive-grade RGB-IR Image Sensor Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Automotive-grade RGB-IR Image Sensor Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Automotive-grade RGB-IR Image Sensor Revenue in 2025
- Figure 18. Industry Chain Map of Automotive-grade RGB-IR Image Sensor
- Figure 19. Global Automotive-grade RGB-IR Image Sensor Market PEST Analysis
- Figure 20. Global Automotive-grade RGB-IR Image Sensor Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Automotive-grade RGB-IR Image Sensor Market Share by Type

Figure 27. Sales Market Share of Automotive-grade RGB-IR Image Sensor by Type (2020-2025)

Figure 28. Sales Market Share of Automotive-grade RGB-IR Image Sensor by Type in 2025

Figure 29. Market Share of Automotive-grade RGB-IR Image Sensor by Type (2020-2025)

Figure 30. Market Share of Automotive-grade RGB-IR Image Sensor by Type in 2025

Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global Automotive-grade RGB-IR Image Sensor Market Share by Application

Figure 33. Global Automotive-grade RGB-IR Image Sensor Sales Market Share by Application (2020-2025)

Figure 34. Global Automotive-grade RGB-IR Image Sensor Sales Market Share by Application in 2025

Figure 35. Global Automotive-grade RGB-IR Image Sensor Market Share by Application (2020-2025)

Figure 36. Global Automotive-grade RGB-IR Image Sensor Market Share by Application in 2025

Figure 37. Global Automotive-grade RGB-IR Image Sensor Sales Growth Rate by Application (2020-2025)

Figure 38. Global Automotive-grade RGB-IR Image Sensor Sales Market Share by Region (2020-2025)

Figure 39. Global Automotive-grade RGB-IR Image Sensor Market Size by Region (2020-2025)

Figure 40. North America Automotive-grade RGB-IR Image Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Automotive-grade RGB-IR Image Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Automotive-grade RGB-IR Image Sensor Sales Market Share by Country in 2024

Figure 43. North America Automotive-grade RGB-IR Image Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Automotive-grade RGB-IR Image Sensor Market Size by Country in 2024

Figure 45. U.S. Automotive-grade RGB-IR Image Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Automotive-grade RGB-IR Image Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Automotive-grade RGB-IR Image Sensor Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Automotive-grade RGB-IR Image Sensor Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Automotive-grade RGB-IR Image Sensor Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Automotive-grade RGB-IR Image Sensor Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Automotive-grade RGB-IR Image Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Automotive-grade RGB-IR Image Sensor Sales Market Share by Country in 2024

Figure 53. Europe Automotive-grade RGB-IR Image Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Automotive-grade RGB-IR Image Sensor Market Size by Country in 2024

Figure 55. Germany Automotive-grade RGB-IR Image Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Automotive-grade RGB-IR Image Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Automotive-grade RGB-IR Image Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Automotive-grade RGB-IR Image Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Automotive-grade RGB-IR Image Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Automotive-grade RGB-IR Image Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Automotive-grade RGB-IR Image Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Automotive-grade RGB-IR Image Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Automotive-grade RGB-IR Image Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Automotive-grade RGB-IR Image Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Automotive-grade RGB-IR Image Sensor Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Automotive-grade RGB-IR Image Sensor Sales Market Share by Region in 2024

Figure 67. Asia Pacific Automotive-grade RGB-IR Image Sensor Market Size by Region

in 2024

Figure 68. China Automotive-grade RGB-IR Image Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Automotive-grade RGB-IR Image Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Automotive-grade RGB-IR Image Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Automotive-grade RGB-IR Image Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Automotive-grade RGB-IR Image Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Automotive-grade RGB-IR Image Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Automotive-grade RGB-IR Image Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Automotive-grade RGB-IR Image Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Automotive-grade RGB-IR Image Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Automotive-grade RGB-IR Image Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Automotive-grade RGB-IR Image Sensor Sales and Growth Rate (K Units)

Figure 79. South America Automotive-grade RGB-IR Image Sensor Sales Market Share by Country in 2024

Figure 80. South America Automotive-grade RGB-IR Image Sensor Market Size and Growth Rate (M USD)

Figure 81. South America Automotive-grade RGB-IR Image Sensor Market Size by Country in 2024

Figure 82. Brazil Automotive-grade RGB-IR Image Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Automotive-grade RGB-IR Image Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Automotive-grade RGB-IR Image Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Automotive-grade RGB-IR Image Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Automotive-grade RGB-IR Image Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Automotive-grade RGB-IR Image Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Automotive-grade RGB-IR Image Sensor Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Automotive-grade RGB-IR Image Sensor Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Automotive-grade RGB-IR Image Sensor Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Automotive-grade RGB-IR Image Sensor Market Size by Region in 2024

Figure 92. Saudi Arabia Automotive-grade RGB-IR Image Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Automotive-grade RGB-IR Image Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Automotive-grade RGB-IR Image Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Automotive-grade RGB-IR Image Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Automotive-grade RGB-IR Image Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Automotive-grade RGB-IR Image Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Automotive-grade RGB-IR Image Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Automotive-grade RGB-IR Image Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Automotive-grade RGB-IR Image Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Automotive-grade RGB-IR Image Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Automotive-grade RGB-IR Image Sensor Production Market Share by Region (2020-2025)

Figure 103. North America Automotive-grade RGB-IR Image Sensor Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Automotive-grade RGB-IR Image Sensor Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Automotive-grade RGB-IR Image Sensor Production (K Units) Growth Rate (2020-2025)

Figure 106. China Automotive-grade RGB-IR Image Sensor Production (K Units)

Growth Rate (2020-2025)

Figure 107. Global Automotive-grade RGB-IR Image Sensor Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Automotive-grade RGB-IR Image Sensor Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Automotive-grade RGB-IR Image Sensor Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Automotive-grade RGB-IR Image Sensor Market Share Forecast by Type (2026-2035)

Figure 111. Global Automotive-grade RGB-IR Image Sensor Sales Forecast by Application (2026-2035)

Figure 112. Global Automotive-grade RGB-IR Image Sensor Market Share Forecast by Application (2026-2035)

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