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Global Automotive Uncooled Infrared Cores Market Growth 2025-2031

https://marketpublishers.com/r/GF83B90A8581EN.html
Date: August 2025
Pages: 100
Price: US$ 3,660.00 (Single User License)
ID: GF83B90A8581EN

Abstracts

The global Automotive Uncooled Infrared Cores market size is predicted to grow from US$ 234 million in 2025 to US$ 942 million in 2031; it is expected to grow at a CAGR of 26.1% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

The on-board uncooled infrared movement is a core sensing component of the car based on uncooled infrared detector technology. It generates images by capturing the object's own thermal radiation (8-14?m wavelength) and realizes ultra-long-distance (such as more than 300 meters) target recognition (pedestrians, vehicles, obstacles) in complex environments such as complete darkness, rain and fog, and strong light glare. It is widely used in intelligent driving night vision assistance, automatic driving warning and environmental monitoring systems. It is estimated that the market size of on-board uncooled infrared movement will account for 20%-30% of the overall infrared thermal imaging market in 2024, about US$200-300 million, and will maintain a high prosperity with an annual compound growth rate of more than 20% in the next three years.

United States market for Automotive Uncooled Infrared Cores is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Automotive Uncooled Infrared Cores is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

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Europe market for Automotive Uncooled Infrared Cores is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Automotive Uncooled Infrared Cores players cover Teledyne FLIR, IRay Technology, Wuhan Guide Infrared Co., Ltd., Leonardo DRS, Semi Conductor Devices (SCD), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the “Automotive Uncooled Infrared Cores Industry Forecast” looks at past sales and reviews total world Automotive Uncooled Infrared Cores sales in 2024, providing a comprehensive analysis by region and market sector of projected Automotive Uncooled Infrared Cores sales for 2025 through 2031. With Automotive Uncooled Infrared Cores sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Automotive Uncooled Infrared Cores industry.

This Insight Report provides a comprehensive analysis of the global Automotive Uncooled Infrared Cores 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 Automotive Uncooled Infrared Cores portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Automotive Uncooled Infrared Cores market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Uncooled Infrared Cores 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 Automotive Uncooled Infrared Cores.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive Uncooled Infrared Cores market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

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Amorphous Silicon Type

Vanadium Oxide Type

Other

Segmentation by Application:

Passenger Cars

Commercial Vehicles

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

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- 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.

- Teledyne FLIR
- IRay Technology
- Wuhan Guide Infrared Co., Ltd.
- Leonardo DRS

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Semi Conductor Devices (SCD)

Global Sensor Technology

Zhejiang ULIRVISION Technology

Raytron Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Uncooled Infrared Cores market?
What factors are driving Automotive Uncooled Infrared Cores market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do Automotive Uncooled Infrared Cores market opportunities vary by end market size?
How does Automotive Uncooled Infrared Cores break out by Type, by Application?

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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 Automotive Uncooled Infrared Cores Annual Sales 2020-2031
  2.1.2 World Current & Future Analysis for Automotive Uncooled Infrared Cores by Geographic Region, 2020, 2024 & 2031
  2.1.3 World Current & Future Analysis for Automotive Uncooled Infrared Cores by Country/Region, 2020, 2024 & 2031
2.2 Automotive Uncooled Infrared Cores Segment by Type
  2.2.1 Amorphous Silicon Type
  2.2.2 Vanadium Oxide Type
  2.2.3 Other
2.3 Automotive Uncooled Infrared Cores Sales by Type
  2.3.1 Global Automotive Uncooled Infrared Cores Sales Market Share by Type (2020-2025)
  2.3.2 Global Automotive Uncooled Infrared Cores Revenue and Market Share by Type (2020-2025)
  2.3.3 Global Automotive Uncooled Infrared Cores Sale Price by Type (2020-2025)
2.4 Automotive Uncooled Infrared Cores Segment by Application
  2.4.1 Passenger Cars
  2.4.2 Commercial Vehicles
  2.4.3 Others
2.5 Automotive Uncooled Infrared Cores Sales by Application
  2.5.1 Global Automotive Uncooled Infrared Cores Sale Market Share by Application (2020-2025)
  2.5.2 Global Automotive Uncooled Infrared Cores Revenue and Market Share by

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Application (2020-2025)
2.5.3 Global Automotive Uncooled Infrared Cores Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global Automotive Uncooled Infrared Cores Breakdown Data by Company
3.1.1 Global Automotive Uncooled Infrared Cores Annual Sales by Company (2020-2025)
3.1.2 Global Automotive Uncooled Infrared Cores Sales Market Share by Company (2020-2025)
3.2 Global Automotive Uncooled Infrared Cores Annual Revenue by Company (2020-2025)
3.2.1 Global Automotive Uncooled Infrared Cores Revenue by Company (2020-2025)
3.2.2 Global Automotive Uncooled Infrared Cores Revenue Market Share by Company (2020-2025)
3.3 Global Automotive Uncooled Infrared Cores Sale Price by Company
3.4 Key Manufacturers Automotive Uncooled Infrared Cores Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Automotive Uncooled Infrared Cores Product Location Distribution
3.4.2 Players Automotive Uncooled Infrared Cores Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR AUTOMOTIVE UNCOOLED INFRARED CORES BY GEOGRAPHIC REGION

4.1 World Historic Automotive Uncooled Infrared Cores Market Size by Geographic Region (2020-2025)
4.1.1 Global Automotive Uncooled Infrared Cores Annual Sales by Geographic Region (2020-2025)
4.1.2 Global Automotive Uncooled Infrared Cores Annual Revenue by Geographic Region (2020-2025)
4.2 World Historic Automotive Uncooled Infrared Cores Market Size by Country/Region (2020-2025)

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4.2.1 Global Automotive Uncooled Infrared Cores Annual Sales by Country/Region (2020-2025)
4.2.2 Global Automotive Uncooled Infrared Cores Annual Revenue by Country/Region (2020-2025)
4.3 Americas Automotive Uncooled Infrared Cores Sales Growth
4.4 APAC Automotive Uncooled Infrared Cores Sales Growth
4.5 Europe Automotive Uncooled Infrared Cores Sales Growth
4.6 Middle East & Africa Automotive Uncooled Infrared Cores Sales Growth

5 AMERICAS

5.1 Americas Automotive Uncooled Infrared Cores Sales by Country
5.1.1 Americas Automotive Uncooled Infrared Cores Sales by Country (2020-2025)
5.1.2 Americas Automotive Uncooled Infrared Cores Revenue by Country (2020-2025)
5.2 Americas Automotive Uncooled Infrared Cores Sales by Type (2020-2025)
5.3 Americas Automotive Uncooled Infrared Cores Sales by Application (2020-2025)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Automotive Uncooled Infrared Cores Sales by Region
6.1.1 APAC Automotive Uncooled Infrared Cores Sales by Region (2020-2025)
6.1.2 APAC Automotive Uncooled Infrared Cores Revenue by Region (2020-2025)
6.2 APAC Automotive Uncooled Infrared Cores Sales by Type (2020-2025)
6.3 APAC Automotive Uncooled Infrared Cores Sales by Application (2020-2025)
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 Automotive Uncooled Infrared Cores by Country

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7.1.1 Europe Automotive Uncooled Infrared Cores Sales by Country (2020-2025)
7.1.2 Europe Automotive Uncooled Infrared Cores Revenue by Country (2020-2025)
7.2 Europe Automotive Uncooled Infrared Cores Sales by Type (2020-2025)
7.3 Europe Automotive Uncooled Infrared Cores Sales by Application (2020-2025)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Automotive Uncooled Infrared Cores by Country
8.1.1 Middle East & Africa Automotive Uncooled Infrared Cores Sales by Country (2020-2025)
8.1.2 Middle East & Africa Automotive Uncooled Infrared Cores Revenue by Country (2020-2025)
8.2 Middle East & Africa Automotive Uncooled Infrared Cores Sales by Type (2020-2025)
8.3 Middle East & Africa Automotive Uncooled Infrared Cores Sales by Application (2020-2025)
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 Automotive Uncooled Infrared Cores
10.3 Manufacturing Process Analysis of Automotive Uncooled Infrared Cores
10.4 Industry Chain Structure of Automotive Uncooled Infrared Cores

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11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 Automotive Uncooled Infrared Cores Distributors
11.3 Automotive Uncooled Infrared Cores Customer

12 WORLD FORECAST REVIEW FOR AUTOMOTIVE UNCOOLED INFRARED CORES BY GEOGRAPHIC REGION

12.1 Global Automotive Uncooled Infrared Cores Market Size Forecast by Region
  12.1.1 Global Automotive Uncooled Infrared Cores Forecast by Region (2026-2031)
  12.1.2 Global Automotive Uncooled Infrared Cores Annual Revenue Forecast by Region (2026-2031)
12.2 Americas Forecast by Country (2026-2031)
12.3 APAC Forecast by Region (2026-2031)
12.4 Europe Forecast by Country (2026-2031)
12.5 Middle East & Africa Forecast by Country (2026-2031)
12.6 Global Automotive Uncooled Infrared Cores Forecast by Type (2026-2031)
12.7 Global Automotive Uncooled Infrared Cores Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 Teledyne FLIR
  13.1.1 Teledyne FLIR Company Information
  13.1.2 Teledyne FLIR Automotive Uncooled Infrared Cores Product Portfolios and Specifications
  13.1.3 Teledyne FLIR Automotive Uncooled Infrared Cores Sales, Revenue, Price and Gross Margin (2020-2025)
  13.1.4 Teledyne FLIR Main Business Overview
  13.1.5 Teledyne FLIR Latest Developments
13.2 IRay Technology
  13.2.1 IRay Technology Company Information
  13.2.2 IRay Technology Automotive Uncooled Infrared Cores Product Portfolios and Specifications
  13.2.3 IRay Technology Automotive Uncooled Infrared Cores Sales, Revenue, Price and Gross Margin (2020-2025)

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13.2.4 IRay Technology Main Business Overview
13.2.5 IRay Technology Latest Developments
13.3 Wuhan Guide Infrared Co., Ltd.
13.3.1 Wuhan Guide Infrared Co., Ltd. Company Information
13.3.2 Wuhan Guide Infrared Co., Ltd. Automotive Uncooled Infrared Cores Product Portfolios and Specifications
13.3.3 Wuhan Guide Infrared Co., Ltd. Automotive Uncooled Infrared Cores Sales, Revenue, Price and Gross Margin (2020-2025)
13.3.4 Wuhan Guide Infrared Co., Ltd. Main Business Overview
13.3.5 Wuhan Guide Infrared Co., Ltd. Latest Developments
13.4 Leonardo DRS
13.4.1 Leonardo DRS Company Information
13.4.2 Leonardo DRS Automotive Uncooled Infrared Cores Product Portfolios and Specifications
13.4.3 Leonardo DRS Automotive Uncooled Infrared Cores Sales, Revenue, Price and Gross Margin (2020-2025)
13.4.4 Leonardo DRS Main Business Overview
13.4.5 Leonardo DRS Latest Developments
13.5 Semi Conductor Devices (SCD)
13.5.1 Semi Conductor Devices (SCD) Company Information
13.5.2 Semi Conductor Devices (SCD) Automotive Uncooled Infrared Cores Product Portfolios and Specifications
13.5.3 Semi Conductor Devices (SCD) Automotive Uncooled Infrared Cores Sales, Revenue, Price and Gross Margin (2020-2025)
13.5.4 Semi Conductor Devices (SCD) Main Business Overview
13.5.5 Semi Conductor Devices (SCD) Latest Developments
13.6 Global Sensor Technology
13.6.1 Global Sensor Technology Company Information
13.6.2 Global Sensor Technology Automotive Uncooled Infrared Cores Product Portfolios and Specifications
13.6.3 Global Sensor Technology Automotive Uncooled Infrared Cores Sales, Revenue, Price and Gross Margin (2020-2025)
13.6.4 Global Sensor Technology Main Business Overview
13.6.5 Global Sensor Technology Latest Developments
13.7 Zhejiang ULIRVISION Technology
13.7.1 Zhejiang ULIRVISION Technology Company Information
13.7.2 Zhejiang ULIRVISION Technology Automotive Uncooled Infrared Cores Product Portfolios and Specifications
13.7.3 Zhejiang ULIRVISION Technology Automotive Uncooled Infrared Cores Sales,

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Revenue, Price and Gross Margin (2020-2025)
13.7.4 Zhejiang ULIRVISION Technology Main Business Overview
13.7.5 Zhejiang ULIRVISION Technology Latest Developments
13.8 Raytron Technology
13.8.1 Raytron Technology Company Information
13.8.2 Raytron Technology Automotive Uncooled Infrared Cores Product Portfolios and Specifications
13.8.3 Raytron Technology Automotive Uncooled Infrared Cores Sales, Revenue, Price and Gross Margin (2020-2025)
13.8.4 Raytron Technology Main Business Overview
13.8.5 Raytron Technology Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

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info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Automotive Uncooled Infrared Cores Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & ($ millions)
Table 2. Automotive Uncooled Infrared Cores Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & ($ millions)
Table 3. Major Players of Amorphous Silicon Type
Table 4. Major Players of Vanadium Oxide Type
Table 5. Major Players of Other
Table 6. Global Automotive Uncooled Infrared Cores Sales by Type (2020-2025) & (K Units)
Table 7. Global Automotive Uncooled Infrared Cores Sales Market Share by Type (2020-2025)
Table 8. Global Automotive Uncooled Infrared Cores Revenue by Type (2020-2025) & ($ million)
Table 9. Global Automotive Uncooled Infrared Cores Revenue Market Share by Type (2020-2025)
Table 10. Global Automotive Uncooled Infrared Cores Sale Price by Type (2020-2025) & (US$/Unit)
Table 11. Global Automotive Uncooled Infrared Cores Sale by Application (2020-2025) & (K Units)
Table 12. Global Automotive Uncooled Infrared Cores Sale Market Share by Application (2020-2025)
Table 13. Global Automotive Uncooled Infrared Cores Revenue by Application (2020-2025) & ($ million)
Table 14. Global Automotive Uncooled Infrared Cores Revenue Market Share by Application (2020-2025)
Table 15. Global Automotive Uncooled Infrared Cores Sale Price by Application (2020-2025) & (US$/Unit)
Table 16. Global Automotive Uncooled Infrared Cores Sales by Company (2020-2025) & (K Units)
Table 17. Global Automotive Uncooled Infrared Cores Sales Market Share by Company (2020-2025)
Table 18. Global Automotive Uncooled Infrared Cores Revenue by Company (2020-2025) & ($ millions)
Table 19. Global Automotive Uncooled Infrared Cores Revenue Market Share by Company (2020-2025)

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Table 20. Global Automotive Uncooled Infrared Cores Sale Price by Company (2020-2025) & (US$/Unit)
Table 21. Key Manufacturers Automotive Uncooled Infrared Cores Producing Area Distribution and Sales Area
Table 22. Players Automotive Uncooled Infrared Cores Products Offered
Table 23. Automotive Uncooled Infrared Cores Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
Table 24. New Products and Potential Entrants
Table 25. Market M&A Activity & Strategy
Table 26. Global Automotive Uncooled Infrared Cores Sales by Geographic Region (2020-2025) & (K Units)
Table 27. Global Automotive Uncooled Infrared Cores Sales Market Share Geographic Region (2020-2025)
Table 28. Global Automotive Uncooled Infrared Cores Revenue by Geographic Region (2020-2025) & ($ millions)
Table 29. Global Automotive Uncooled Infrared Cores Revenue Market Share by Geographic Region (2020-2025)
Table 30. Global Automotive Uncooled Infrared Cores Sales by Country/Region (2020-2025) & (K Units)
Table 31. Global Automotive Uncooled Infrared Cores Sales Market Share by Country/Region (2020-2025)
Table 32. Global Automotive Uncooled Infrared Cores Revenue by Country/Region (2020-2025) & ($ millions)
Table 33. Global Automotive Uncooled Infrared Cores Revenue Market Share by Country/Region (2020-2025)
Table 34. Americas Automotive Uncooled Infrared Cores Sales by Country (2020-2025) & (K Units)
Table 35. Americas Automotive Uncooled Infrared Cores Sales Market Share by Country (2020-2025)
Table 36. Americas Automotive Uncooled Infrared Cores Revenue by Country (2020-2025) & ($ millions)
Table 37. Americas Automotive Uncooled Infrared Cores Sales by Type (2020-2025) & (K Units)
Table 38. Americas Automotive Uncooled Infrared Cores Sales by Application (2020-2025) & (K Units)
Table 39. APAC Automotive Uncooled Infrared Cores Sales by Region (2020-2025) & (K Units)
Table 40. APAC Automotive Uncooled Infrared Cores Sales Market Share by Region (2020-2025)

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Table 41. APAC Automotive Uncooled Infrared Cores Revenue by Region (2020-2025) & ($ millions)
Table 42. APAC Automotive Uncooled Infrared Cores Sales by Type (2020-2025) & (K Units)
Table 43. APAC Automotive Uncooled Infrared Cores Sales by Application (2020-2025) & (K Units)
Table 44. Europe Automotive Uncooled Infrared Cores Sales by Country (2020-2025) & (K Units)
Table 45. Europe Automotive Uncooled Infrared Cores Revenue by Country (2020-2025) & ($ millions)
Table 46. Europe Automotive Uncooled Infrared Cores Sales by Type (2020-2025) & (K Units)
Table 47. Europe Automotive Uncooled Infrared Cores Sales by Application (2020-2025) & (K Units)
Table 48. Middle East & Africa Automotive Uncooled Infrared Cores Sales by Country (2020-2025) & (K Units)
Table 49. Middle East & Africa Automotive Uncooled Infrared Cores Revenue Market Share by Country (2020-2025)
Table 50. Middle East & Africa Automotive Uncooled Infrared Cores Sales by Type (2020-2025) & (K Units)
Table 51. Middle East & Africa Automotive Uncooled Infrared Cores Sales by Application (2020-2025) & (K Units)
Table 52. Key Market Drivers & Growth Opportunities of Automotive Uncooled Infrared Cores
Table 53. Key Market Challenges & Risks of Automotive Uncooled Infrared Cores
Table 54. Key Industry Trends of Automotive Uncooled Infrared Cores
Table 55. Automotive Uncooled Infrared Cores Raw Material
Table 56. Key Suppliers of Raw Materials
Table 57. Automotive Uncooled Infrared Cores Distributors List
Table 58. Automotive Uncooled Infrared Cores Customer List
Table 59. Global Automotive Uncooled Infrared Cores Sales Forecast by Region (2026-2031) & (K Units)
Table 60. Global Automotive Uncooled Infrared Cores Revenue Forecast by Region (2026-2031) & ($ millions)
Table 61. Americas Automotive Uncooled Infrared Cores Sales Forecast by Country (2026-2031) & (K Units)
Table 62. Americas Automotive Uncooled Infrared Cores Annual Revenue Forecast by Country (2026-2031) & ($ millions)
Table 63. APAC Automotive Uncooled Infrared Cores Sales Forecast by Region

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(2026-2031) & (K Units)
Table 64. APAC Automotive Uncooled Infrared Cores Annual Revenue Forecast by Region (2026-2031) & ($ millions)
Table 65. Europe Automotive Uncooled Infrared Cores Sales Forecast by Country (2026-2031) & (K Units)
Table 66. Europe Automotive Uncooled Infrared Cores Revenue Forecast by Country (2026-2031) & ($ millions)
Table 67. Middle East & Africa Automotive Uncooled Infrared Cores Sales Forecast by Country (2026-2031) & (K Units)
Table 68. Middle East & Africa Automotive Uncooled Infrared Cores Revenue Forecast by Country (2026-2031) & ($ millions)
Table 69. Global Automotive Uncooled Infrared Cores Sales Forecast by Type (2026-2031) & (K Units)
Table 70. Global Automotive Uncooled Infrared Cores Revenue Forecast by Type (2026-2031) & ($ millions)
Table 71. Global Automotive Uncooled Infrared Cores Sales Forecast by Application (2026-2031) & (K Units)
Table 72. Global Automotive Uncooled Infrared Cores Revenue Forecast by Application (2026-2031) & ($ millions)
Table 73. Teledyne FLIR Basic Information, Automotive Uncooled Infrared Cores Manufacturing Base, Sales Area and Its Competitors
Table 74. Teledyne FLIR Automotive Uncooled Infrared Cores Product Portfolios and Specifications
Table 75. Teledyne FLIR Automotive Uncooled Infrared Cores Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 76. Teledyne FLIR Main Business
Table 77. Teledyne FLIR Latest Developments
Table 78. IRay Technology Basic Information, Automotive Uncooled Infrared Cores Manufacturing Base, Sales Area and Its Competitors
Table 79. IRay Technology Automotive Uncooled Infrared Cores Product Portfolios and Specifications
Table 80. IRay Technology Automotive Uncooled Infrared Cores Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 81. IRay Technology Main Business
Table 82. IRay Technology Latest Developments
Table 83. Wuhan Guide Infrared Co., Ltd. Basic Information, Automotive Uncooled Infrared Cores Manufacturing Base, Sales Area and Its Competitors
Table 84. Wuhan Guide Infrared Co., Ltd. Automotive Uncooled Infrared Cores Product Portfolios and Specifications

+357 96 030922
info@marketpublishers.com

Table 85. Wuhan Guide Infrared Co., Ltd. Automotive Uncooled Infrared Cores Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 86. Wuhan Guide Infrared Co., Ltd. Main Business
Table 87. Wuhan Guide Infrared Co., Ltd. Latest Developments
Table 88. Leonardo DRS Basic Information, Automotive Uncooled Infrared Cores Manufacturing Base, Sales Area and Its Competitors
Table 89. Leonardo DRS Automotive Uncooled Infrared Cores Product Portfolios and Specifications
Table 90. Leonardo DRS Automotive Uncooled Infrared Cores Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 91. Leonardo DRS Main Business
Table 92. Leonardo DRS Latest Developments
Table 93. Semi Conductor Devices (SCD) Basic Information, Automotive Uncooled Infrared Cores Manufacturing Base, Sales Area and Its Competitors
Table 94. Semi Conductor Devices (SCD) Automotive Uncooled Infrared Cores Product Portfolios and Specifications
Table 95. Semi Conductor Devices (SCD) Automotive Uncooled Infrared Cores Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 96. Semi Conductor Devices (SCD) Main Business
Table 97. Semi Conductor Devices (SCD) Latest Developments
Table 98. Global Sensor Technology Basic Information, Automotive Uncooled Infrared Cores Manufacturing Base, Sales Area and Its Competitors
Table 99. Global Sensor Technology Automotive Uncooled Infrared Cores Product Portfolios and Specifications
Table 100. Global Sensor Technology Automotive Uncooled Infrared Cores Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 101. Global Sensor Technology Main Business
Table 102. Global Sensor Technology Latest Developments
Table 103. Zhejiang ULIRVISION Technology Basic Information, Automotive Uncooled Infrared Cores Manufacturing Base, Sales Area and Its Competitors
Table 104. Zhejiang ULIRVISION Technology Automotive Uncooled Infrared Cores Product Portfolios and Specifications
Table 105. Zhejiang ULIRVISION Technology Automotive Uncooled Infrared Cores Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 106. Zhejiang ULIRVISION Technology Main Business
Table 107. Zhejiang ULIRVISION Technology Latest Developments
Table 108. Raytron Technology Basic Information, Automotive Uncooled Infrared Cores Manufacturing Base, Sales Area and Its Competitors
Table 109. Raytron Technology Automotive Uncooled Infrared Cores Product Portfolios

+357 96 030922
info@marketpublishers.com

and Specifications
Table 110. Raytron Technology Automotive Uncooled Infrared Cores Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 111. Raytron Technology Main Business
Table 112. Raytron Technology Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Automotive Uncooled Infrared Cores
Figure 2. Automotive Uncooled Infrared Cores Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Automotive Uncooled Infrared Cores Sales Growth Rate 2020-2031 (K Units)
Figure 7. Global Automotive Uncooled Infrared Cores Revenue Growth Rate 2020-2031 ($ millions)
Figure 8. Automotive Uncooled Infrared Cores Sales by Geographic Region (2020, 2024 & 2031) & ($ millions)
Figure 9. Automotive Uncooled Infrared Cores Sales Market Share by Country/Region (2024)
Figure 10. Automotive Uncooled Infrared Cores Sales Market Share by Country/Region (2020, 2024 & 2031)
Figure 11. Product Picture of Amorphous Silicon Type
Figure 12. Product Picture of Vanadium Oxide Type
Figure 13. Product Picture of Other
Figure 14. Global Automotive Uncooled Infrared Cores Sales Market Share by Type in 2025
Figure 15. Global Automotive Uncooled Infrared Cores Revenue Market Share by Type (2020-2025)
Figure 16. Automotive Uncooled Infrared Cores Consumed in Passenger Cars
Figure 17. Global Automotive Uncooled Infrared Cores Market: Passenger Cars (2020-2025) & (K Units)
Figure 18. Automotive Uncooled Infrared Cores Consumed in Commercial Vehicles
Figure 19. Global Automotive Uncooled Infrared Cores Market: Commercial Vehicles (2020-2025) & (K Units)
Figure 20. Automotive Uncooled Infrared Cores Consumed in Others
Figure 21. Global Automotive Uncooled Infrared Cores Market: Others (2020-2025) & (K Units)
Figure 22. Global Automotive Uncooled Infrared Cores Sale Market Share by Application (2024)
Figure 23. Global Automotive Uncooled Infrared Cores Revenue Market Share by Application in 2025

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Figure 24. Automotive Uncooled Infrared Cores Sales by Company in 2025 (K Units)
Figure 25. Global Automotive Uncooled Infrared Cores Sales Market Share by Company in 2025
Figure 26. Automotive Uncooled Infrared Cores Revenue by Company in 2025 ($ millions)
Figure 27. Global Automotive Uncooled Infrared Cores Revenue Market Share by Company in 2025
Figure 28. Global Automotive Uncooled Infrared Cores Sales Market Share by Geographic Region (2020-2025)
Figure 29. Global Automotive Uncooled Infrared Cores Revenue Market Share by Geographic Region in 2025
Figure 30. Americas Automotive Uncooled Infrared Cores Sales 2020-2025 (K Units)
Figure 31. Americas Automotive Uncooled Infrared Cores Revenue 2020-2025 ($ millions)
Figure 32. APAC Automotive Uncooled Infrared Cores Sales 2020-2025 (K Units)
Figure 33. APAC Automotive Uncooled Infrared Cores Revenue 2020-2025 ($ millions)
Figure 34. Europe Automotive Uncooled Infrared Cores Sales 2020-2025 (K Units)
Figure 35. Europe Automotive Uncooled Infrared Cores Revenue 2020-2025 ($ millions)
Figure 36. Middle East & Africa Automotive Uncooled Infrared Cores Sales 2020-2025 (K Units)
Figure 37. Middle East & Africa Automotive Uncooled Infrared Cores Revenue 2020-2025 ($ millions)
Figure 38. Americas Automotive Uncooled Infrared Cores Sales Market Share by Country in 2025
Figure 39. Americas Automotive Uncooled Infrared Cores Revenue Market Share by Country (2020-2025)
Figure 40. Americas Automotive Uncooled Infrared Cores Sales Market Share by Type (2020-2025)
Figure 41. Americas Automotive Uncooled Infrared Cores Sales Market Share by Application (2020-2025)
Figure 42. United States Automotive Uncooled Infrared Cores Revenue Growth 2020-2025 ($ millions)
Figure 43. Canada Automotive Uncooled Infrared Cores Revenue Growth 2020-2025 ($ millions)
Figure 44. Mexico Automotive Uncooled Infrared Cores Revenue Growth 2020-2025 ($ millions)
Figure 45. Brazil Automotive Uncooled Infrared Cores Revenue Growth 2020-2025 ($ millions)
Figure 46. APAC Automotive Uncooled Infrared Cores Sales Market Share by Region in

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Figure 47. APAC Automotive Uncooled Infrared Cores Revenue Market Share by Region (2020-2025)
Figure 48. APAC Automotive Uncooled Infrared Cores Sales Market Share by Type (2020-2025)
Figure 49. APAC Automotive Uncooled Infrared Cores Sales Market Share by Application (2020-2025)
Figure 50. China Automotive Uncooled Infrared Cores Revenue Growth 2020-2025 ($ millions)
Figure 51. Japan Automotive Uncooled Infrared Cores Revenue Growth 2020-2025 ($ millions)
Figure 52. South Korea Automotive Uncooled Infrared Cores Revenue Growth 2020-2025 ($ millions)
Figure 53. Southeast Asia Automotive Uncooled Infrared Cores Revenue Growth 2020-2025 ($ millions)
Figure 54. India Automotive Uncooled Infrared Cores Revenue Growth 2020-2025 ($ millions)
Figure 55. Australia Automotive Uncooled Infrared Cores Revenue Growth 2020-2025 ($ millions)
Figure 56. China Taiwan Automotive Uncooled Infrared Cores Revenue Growth 2020-2025 ($ millions)
Figure 57. Europe Automotive Uncooled Infrared Cores Sales Market Share by Country in 2025
Figure 58. Europe Automotive Uncooled Infrared Cores Revenue Market Share by Country (2020-2025)
Figure 59. Europe Automotive Uncooled Infrared Cores Sales Market Share by Type (2020-2025)
Figure 60. Europe Automotive Uncooled Infrared Cores Sales Market Share by Application (2020-2025)
Figure 61. Germany Automotive Uncooled Infrared Cores Revenue Growth 2020-2025 ($ millions)
Figure 62. France Automotive Uncooled Infrared Cores Revenue Growth 2020-2025 ($ millions)
Figure 63. UK Automotive Uncooled Infrared Cores Revenue Growth 2020-2025 ($ millions)
Figure 64. Italy Automotive Uncooled Infrared Cores Revenue Growth 2020-2025 ($ millions)
Figure 65. Russia Automotive Uncooled Infrared Cores Revenue Growth 2020-2025 ($ millions)

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Figure 66. Middle East & Africa Automotive Uncooled Infrared Cores Sales Market Share by Country (2020-2025)
Figure 67. Middle East & Africa Automotive Uncooled Infrared Cores Sales Market Share by Type (2020-2025)
Figure 68. Middle East & Africa Automotive Uncooled Infrared Cores Sales Market Share by Application (2020-2025)
Figure 69. Egypt Automotive Uncooled Infrared Cores Revenue Growth 2020-2025 ($ millions)
Figure 70. South Africa Automotive Uncooled Infrared Cores Revenue Growth 2020-2025 ($ millions)
Figure 71. Israel Automotive Uncooled Infrared Cores Revenue Growth 2020-2025 ($ millions)
Figure 72. Turkey Automotive Uncooled Infrared Cores Revenue Growth 2020-2025 ($ millions)
Figure 73. GCC Countries Automotive Uncooled Infrared Cores Revenue Growth 2020-2025 ($ millions)
Figure 74. Manufacturing Cost Structure Analysis of Automotive Uncooled Infrared Cores in 2025
Figure 75. Manufacturing Process Analysis of Automotive Uncooled Infrared Cores
Figure 76. Industry Chain Structure of Automotive Uncooled Infrared Cores
Figure 77. Channels of Distribution
Figure 78. Global Automotive Uncooled Infrared Cores Sales Market Forecast by Region (2026-2031)
Figure 79. Global Automotive Uncooled Infrared Cores Revenue Market Share Forecast by Region (2026-2031)
Figure 80. Global Automotive Uncooled Infrared Cores Sales Market Share Forecast by Type (2026-2031)
Figure 81. Global Automotive Uncooled Infrared Cores Revenue Market Share Forecast by Type (2026-2031)
Figure 82. Global Automotive Uncooled Infrared Cores Sales Market Share Forecast by Application (2026-2031)
Figure 83. Global Automotive Uncooled Infrared Cores Revenue Market Share Forecast by Application (2026-2031)

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