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Global Cooling Infrared Detectors Market Growth 2026-2032

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Abstracts

The global Cooling Infrared Detectors market size is predicted to grow from US$ 1739 million in 2025 to US$ 4202 million in 2032; it is expected to grow at a CAGR of 13.7% from 2026 to 2032.

Cooled infrared detector is the core component of cooled thermal imaging system. It forms a suitable low and constant temperature environment through the cooling mechanism, so that the infrared sensitive photoelectric conversion chip encapsulated in the main body of the ultra-high vacuum Dewar can convert the infrared radiation of the scene into electrical signals, and then through the readout circuit acquisition, amplification, output, image processing, and finally form an infrared image for human eyes? observation.

Cooling Infrared Detectors are devices that use thermoelectric coolers, cryogenic coolers, or Joule-Thomson coolers to lower the temperature of infrared sensors, such as InAsSb, HgCdTe, or graphene. Cooling can reduce the thermal noise and dark current of the sensors, and improve their sensitivity and resolution in the infrared spectrum.

The market drivers for Cooling Infrared Detectors are the increasing demand for high-performance infrared imaging solutions in various end-use verticals, such as aerospace and defense, law enforcement, healthcare, automotive, and others. Some of the factors that contribute to this demand are the increasing government expenditure on the aerospace & defense sector, the increasing adoption of infrared imaging in the automotive industry, the growing R&D investments by companies, governments, and capital firms for developing innovative infrared imaging solutions, and the rising use of infrared imaging for security and surveillance applications.

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The constraints of Cooling Infrared Detectors are the high cost of materials and components, the low reliability and usability in harsh environmental conditions, and the regulatory and export restrictions on certain technologies. Some of the materials used for manufacturing objective lenses and thermal sensors, such as germanium, chalcogenide glass, and sapphire, are expensive and scarce. The cooling systems also add complexity, bulkiness, and power consumption to the devices. Moreover, some cooling infrared detectors are subject to the International Traffic in Arms Regulations (ITAR) or the Export Administration Regulations (EAR), which may restrict their export or use in certain countries or applications.

The future opportunities for Cooling Infrared Detectors are the growing use of infrared imaging in emerging applications, such as autonomous vehicles, automatic emergency braking (AEB) systems, industrial inspection, scientific research, fire control systems, and others. The development of new technologies, such as artificial intelligence (AI), internet of things (IoT), digital twin, smart robots, and others, may also enhance the performance and functionality of infrared imaging solutions.

LP Information, Inc. (LPI) ' newest research report, the ?Cooling Infrared Detectors Industry Forecast? looks at past sales and reviews total world Cooling Infrared Detectors sales in 2025, providing a comprehensive analysis by region and market sector of projected Cooling Infrared Detectors sales for 2026 through 2032. With Cooling Infrared Detectors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Cooling Infrared Detectors industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Cooling Infrared Detectors 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

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view of the current state and future trajectory in the global Cooling Infrared Detectors.

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

Segmentation by Type:

Mid-Wave Infrared Detector

Long Wave Infrared Detector

Dual Color Infrared Detectors

Segmentation by Application:

Medical Diagnosis

Epidemic Prevention

Metallurgical Petrochemical

Building HVAC

Machine Vision

Power Industry

This report also splits the market by region:

Americas

United States

Canada

Mexico

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- Brazil

APAC

- China
- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel
- Turkey

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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.

Global Sensor Technology

Lockheed Martin

Raytheon Technologies

L3 Technologies

Thales Group

Teledyne FLIR

SAGEM

Northrop Grumman Corporation

Collins Aerospace

BAE Systems

Elbit Systems

TSKGV

Wuhan Gaode Infrared Co.,Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Cooling Infrared Detectors market?

What factors are driving Cooling Infrared Detectors market growth, globally and

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by region?

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

How do Cooling Infrared Detectors market opportunities vary by end market size?

How does Cooling Infrared Detectors 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 Cooling Infrared Detectors Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for Cooling Infrared Detectors by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for Cooling Infrared Detectors by Country/Region, 2021, 2025 & 2032
2.2 Cooling Infrared Detectors Segment by Type
  2.2.1 Mid-Wave Infrared Detector
  2.2.2 Long Wave Infrared Detector
  2.2.3 Dual Color Infrared Detectors
  2.2.4 Cooling Infrared Detectors Sales by Type
    2.2.4.1 Global Cooling Infrared Detectors Sales Market Share by Type (2021-2026)
    2.2.4.2 Global Cooling Infrared Detectors Revenue and Market Share by Type (2021-2026)
    2.2.4.3 Global Cooling Infrared Detectors Sale Price by Type (2021-2026)
2.3 Cooling Infrared Detectors Segment by Application
  2.3.1 Medical Diagnosis
  2.3.2 Epidemic Prevention
  2.3.3 Metallurgical Petrochemical
  2.3.4 Building HVAC
  2.3.5 Machine Vision
  2.3.6 Power Industry
  2.3.7 Cooling Infrared Detectors Sales by Application
    2.3.7.1 Global Cooling Infrared Detectors Sale Market Share by Application

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(2021-2026)
2.3.7.2 Global Cooling Infrared Detectors Revenue and Market Share by Application (2021-2026)
2.3.7.3 Global Cooling Infrared Detectors Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Cooling Infrared Detectors Breakdown Data by Company
3.1.1 Global Cooling Infrared Detectors Annual Sales by Company (2021-2026)
3.1.2 Global Cooling Infrared Detectors Sales Market Share by Company (2021-2026)
3.2 Global Cooling Infrared Detectors Annual Revenue by Company (2021-2026)
3.2.1 Global Cooling Infrared Detectors Revenue by Company (2021-2026)
3.2.2 Global Cooling Infrared Detectors Revenue Market Share by Company (2021-2026)
3.3 Global Cooling Infrared Detectors Sale Price by Company
3.4 Key Manufacturers Cooling Infrared Detectors Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Cooling Infrared Detectors Product Location Distribution
3.4.2 Players Cooling Infrared Detectors 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 COOLING INFRARED DETECTORS BY GEOGRAPHIC REGION

4.1 World Historic Cooling Infrared Detectors Market Size by Geographic Region (2021-2026)
4.1.1 Global Cooling Infrared Detectors Annual Sales by Geographic Region (2021-2026)
4.1.2 Global Cooling Infrared Detectors Annual Revenue by Geographic Region (2021-2026)
4.2 World Historic Cooling Infrared Detectors Market Size by Country/Region (2021-2026)
4.2.1 Global Cooling Infrared Detectors Annual Sales by Country/Region (2021-2026)
4.2.2 Global Cooling Infrared Detectors Annual Revenue by Country/Region (2021-2026)

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4.3 Americas Cooling Infrared Detectors Sales Growth
4.4 APAC Cooling Infrared Detectors Sales Growth
4.5 Europe Cooling Infrared Detectors Sales Growth
4.6 Middle East & Africa Cooling Infrared Detectors Sales Growth

5 AMERICAS

5.1 Americas Cooling Infrared Detectors Sales by Country
  5.1.1 Americas Cooling Infrared Detectors Sales by Country (2021-2026)
  5.1.2 Americas Cooling Infrared Detectors Revenue by Country (2021-2026)
5.2 Americas Cooling Infrared Detectors Sales by Type (2021-2026)
5.3 Americas Cooling Infrared Detectors Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Cooling Infrared Detectors Sales by Region
  6.1.1 APAC Cooling Infrared Detectors Sales by Region (2021-2026)
  6.1.2 APAC Cooling Infrared Detectors Revenue by Region (2021-2026)
6.2 APAC Cooling Infrared Detectors Sales by Type (2021-2026)
6.3 APAC Cooling Infrared Detectors 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 Cooling Infrared Detectors by Country
  7.1.1 Europe Cooling Infrared Detectors Sales by Country (2021-2026)
  7.1.2 Europe Cooling Infrared Detectors Revenue by Country (2021-2026)
7.2 Europe Cooling Infrared Detectors Sales by Type (2021-2026)
7.3 Europe Cooling Infrared Detectors Sales by Application (2021-2026)

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7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Cooling Infrared Detectors by Country
  8.1.1 Middle East & Africa Cooling Infrared Detectors Sales by Country (2021-2026)
  8.1.2 Middle East & Africa Cooling Infrared Detectors Revenue by Country (2021-2026)
8.2 Middle East & Africa Cooling Infrared Detectors Sales by Type (2021-2026)
8.3 Middle East & Africa Cooling Infrared Detectors 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 Cooling Infrared Detectors
10.3 Manufacturing Process Analysis of Cooling Infrared Detectors
10.4 Industry Chain Structure of Cooling Infrared Detectors

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 Cooling Infrared Detectors Distributors

+357 96 030922
info@marketpublishers.com

11.3 Cooling Infrared Detectors Customer

12 WORLD FORECAST REVIEW FOR COOLING INFRARED DETECTORS BY GEOGRAPHIC REGION

12.1 Global Cooling Infrared Detectors Market Size Forecast by Region
  12.1.1 Global Cooling Infrared Detectors Forecast by Region (2027-2032)
  12.1.2 Global Cooling Infrared Detectors 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 Cooling Infrared Detectors Forecast by Type (2027-2032)
12.7 Global Cooling Infrared Detectors Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Global Sensor Technology
  13.1.1 Global Sensor Technology Company Information
  13.1.2 Global Sensor Technology Cooling Infrared Detectors Product Portfolios and Specifications
  13.1.3 Global Sensor Technology Cooling Infrared Detectors Sales, Revenue, Price and Gross Margin (2021-2026)
  13.1.4 Global Sensor Technology Main Business Overview
  13.1.5 Global Sensor Technology Latest Developments
13.2 Lockheed Martin
  13.2.1 Lockheed Martin Company Information
  13.2.2 Lockheed Martin Cooling Infrared Detectors Product Portfolios and Specifications
  13.2.3 Lockheed Martin Cooling Infrared Detectors Sales, Revenue, Price and Gross Margin (2021-2026)
  13.2.4 Lockheed Martin Main Business Overview
  13.2.5 Lockheed Martin Latest Developments
13.3 Raytheon Technologies
  13.3.1 Raytheon Technologies Company Information
  13.3.2 Raytheon Technologies Cooling Infrared Detectors Product Portfolios and Specifications
  13.3.3 Raytheon Technologies Cooling Infrared Detectors Sales, Revenue, Price and

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Gross Margin (2021-2026)
13.3.4 Raytheon Technologies Main Business Overview
13.3.5 Raytheon Technologies Latest Developments
13.4 L3 Technologies
13.4.1 L3 Technologies Company Information
13.4.2 L3 Technologies Cooling Infrared Detectors Product Portfolios and Specifications
13.4.3 L3 Technologies Cooling Infrared Detectors Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 L3 Technologies Main Business Overview
13.4.5 L3 Technologies Latest Developments
13.5 Thales Group
13.5.1 Thales Group Company Information
13.5.2 Thales Group Cooling Infrared Detectors Product Portfolios and Specifications
13.5.3 Thales Group Cooling Infrared Detectors Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 Thales Group Main Business Overview
13.5.5 Thales Group Latest Developments
13.6 Teledyne FLIR
13.6.1 Teledyne FLIR Company Information
13.6.2 Teledyne FLIR Cooling Infrared Detectors Product Portfolios and Specifications
13.6.3 Teledyne FLIR Cooling Infrared Detectors Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 Teledyne FLIR Main Business Overview
13.6.5 Teledyne FLIR Latest Developments
13.7 SAGEM
13.7.1 SAGEM Company Information
13.7.2 SAGEM Cooling Infrared Detectors Product Portfolios and Specifications
13.7.3 SAGEM Cooling Infrared Detectors Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 SAGEM Main Business Overview
13.7.5 SAGEM Latest Developments
13.8 Northrop Grumman Corporation
13.8.1 Northrop Grumman Corporation Company Information
13.8.2 Northrop Grumman Corporation Cooling Infrared Detectors Product Portfolios and Specifications
13.8.3 Northrop Grumman Corporation Cooling Infrared Detectors Sales, Revenue, Price and Gross Margin (2021-2026)
13.8.4 Northrop Grumman Corporation Main Business Overview

+357 96 030922
info@marketpublishers.com

13.8.5 Northrop Grumman Corporation Latest Developments
13.9 Collins Aerospace
13.9.1 Collins Aerospace Company Information
13.9.2 Collins Aerospace Cooling Infrared Detectors Product Portfolios and Specifications
13.9.3 Collins Aerospace Cooling Infrared Detectors Sales, Revenue, Price and Gross Margin (2021-2026)
13.9.4 Collins Aerospace Main Business Overview
13.9.5 Collins Aerospace Latest Developments
13.10 BAE Systems
13.10.1 BAE Systems Company Information
13.10.2 BAE Systems Cooling Infrared Detectors Product Portfolios and Specifications
13.10.3 BAE Systems Cooling Infrared Detectors Sales, Revenue, Price and Gross Margin (2021-2026)
13.10.4 BAE Systems Main Business Overview
13.10.5 BAE Systems Latest Developments
13.11 Elbit Systems
13.11.1 Elbit Systems Company Information
13.11.2 Elbit Systems Cooling Infrared Detectors Product Portfolios and Specifications
13.11.3 Elbit Systems Cooling Infrared Detectors Sales, Revenue, Price and Gross Margin (2021-2026)
13.11.4 Elbit Systems Main Business Overview
13.11.5 Elbit Systems Latest Developments
13.12 TSKGV
13.12.1 TSKGV Company Information
13.12.2 TSKGV Cooling Infrared Detectors Product Portfolios and Specifications
13.12.3 TSKGV Cooling Infrared Detectors Sales, Revenue, Price and Gross Margin (2021-2026)
13.12.4 TSKGV Main Business Overview
13.12.5 TSKGV Latest Developments
13.13 Wuhan Gaode Infrared Co.,Ltd.
13.13.1 Wuhan Gaode Infrared Co.,Ltd. Company Information
13.13.2 Wuhan Gaode Infrared Co.,Ltd. Cooling Infrared Detectors Product Portfolios and Specifications
13.13.3 Wuhan Gaode Infrared Co.,Ltd. Cooling Infrared Detectors Sales, Revenue, Price and Gross Margin (2021-2026)
13.13.4 Wuhan Gaode Infrared Co.,Ltd. Main Business Overview
13.13.5 Wuhan Gaode Infrared Co.,Ltd. Latest Developments

+357 96 030922
info@marketpublishers.com

14 RESEARCH FINDINGS AND CONCLUSION

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List Of Tables

LIST OF TABLES

Table 1. Cooling Infrared Detectors Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. Cooling Infrared Detectors Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Mid-Wave Infrared Detector
Table 4. Major Players of Long Wave Infrared Detector
Table 5. Major Players of Dual Color Infrared Detectors
Table 6. Global Cooling Infrared Detectors Sales by Type (2021-2026) & (K Units)
Table 7. Global Cooling Infrared Detectors Sales Market Share by Type (2021-2026)
Table 8. Global Cooling Infrared Detectors Revenue by Type (2021-2026) & ($ million)
Table 9. Global Cooling Infrared Detectors Revenue Market Share by Type (2021-2026)
Table 10. Global Cooling Infrared Detectors Sale Price by Type (2021-2026) & (US$/Unit)
Table 11. Global Cooling Infrared Detectors Sale by Application (2021-2026) & (K Units)
Table 12. Global Cooling Infrared Detectors Sale Market Share by Application (2021-2026)
Table 13. Global Cooling Infrared Detectors Revenue by Application (2021-2026) & ($ million)
Table 14. Global Cooling Infrared Detectors Revenue Market Share by Application (2021-2026)
Table 15. Global Cooling Infrared Detectors Sale Price by Application (2021-2026) & (US$/Unit)
Table 16. Global Cooling Infrared Detectors Sales by Company (2021-2026) & (K Units)
Table 17. Global Cooling Infrared Detectors Sales Market Share by Company (2021-2026)
Table 18. Global Cooling Infrared Detectors Revenue by Company (2021-2026) & ($ millions)
Table 19. Global Cooling Infrared Detectors Revenue Market Share by Company (2021-2026)
Table 20. Global Cooling Infrared Detectors Sale Price by Company (2021-2026) & (US$/Unit)
Table 21. Key Manufacturers Cooling Infrared Detectors Producing Area Distribution and Sales Area
Table 22. Players Cooling Infrared Detectors Products Offered
Table 23. Cooling Infrared Detectors Concentration Ratio (CR3, CR5 and CR10) &

+357 96 030922
info@marketpublishers.com

(2024-2026)
Table 24. New Products and Potential Entrants
Table 25. Market M&A Activity & Strategy
Table 26. Global Cooling Infrared Detectors Sales by Geographic Region (2021-2026) & (K Units)
Table 27. Global Cooling Infrared Detectors Sales Market Share Geographic Region (2021-2026)
Table 28. Global Cooling Infrared Detectors Revenue by Geographic Region (2021-2026) & ($ millions)
Table 29. Global Cooling Infrared Detectors Revenue Market Share by Geographic Region (2021-2026)
Table 30. Global Cooling Infrared Detectors Sales by Country/Region (2021-2026) & (K Units)
Table 31. Global Cooling Infrared Detectors Sales Market Share by Country/Region (2021-2026)
Table 32. Global Cooling Infrared Detectors Revenue by Country/Region (2021-2026) & ($ millions)
Table 33. Global Cooling Infrared Detectors Revenue Market Share by Country/Region (2021-2026)
Table 34. Americas Cooling Infrared Detectors Sales by Country (2021-2026) & (K Units)
Table 35. Americas Cooling Infrared Detectors Sales Market Share by Country (2021-2026)
Table 36. Americas Cooling Infrared Detectors Revenue by Country (2021-2026) & ($ millions)
Table 37. Americas Cooling Infrared Detectors Sales by Type (2021-2026) & (K Units)
Table 38. Americas Cooling Infrared Detectors Sales by Application (2021-2026) & (K Units)
Table 39. APAC Cooling Infrared Detectors Sales by Region (2021-2026) & (K Units)
Table 40. APAC Cooling Infrared Detectors Sales Market Share by Region (2021-2026)
Table 41. APAC Cooling Infrared Detectors Revenue by Region (2021-2026) & ($ millions)
Table 42. APAC Cooling Infrared Detectors Sales by Type (2021-2026) & (K Units)
Table 43. APAC Cooling Infrared Detectors Sales by Application (2021-2026) & (K Units)
Table 44. Europe Cooling Infrared Detectors Sales by Country (2021-2026) & (K Units)
Table 45. Europe Cooling Infrared Detectors Revenue by Country (2021-2026) & ($ millions)
Table 46. Europe Cooling Infrared Detectors Sales by Type (2021-2026) & (K Units)

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Table 47. Europe Cooling Infrared Detectors Sales by Application (2021-2026) & (K Units)
Table 48. Middle East & Africa Cooling Infrared Detectors Sales by Country (2021-2026) & (K Units)
Table 49. Middle East & Africa Cooling Infrared Detectors Revenue Market Share by Country (2021-2026)
Table 50. Middle East & Africa Cooling Infrared Detectors Sales by Type (2021-2026) & (K Units)
Table 51. Middle East & Africa Cooling Infrared Detectors Sales by Application (2021-2026) & (K Units)
Table 52. Key Market Drivers & Growth Opportunities of Cooling Infrared Detectors
Table 53. Key Market Challenges & Risks of Cooling Infrared Detectors
Table 54. Key Industry Trends of Cooling Infrared Detectors
Table 55. Cooling Infrared Detectors Raw Material
Table 56. Key Suppliers of Raw Materials
Table 57. Cooling Infrared Detectors Distributors List
Table 58. Cooling Infrared Detectors Customer List
Table 59. Global Cooling Infrared Detectors Sales Forecast by Region (2027-2032) & (K Units)
Table 60. Global Cooling Infrared Detectors Revenue Forecast by Region (2027-2032) & ($ millions)
Table 61. Americas Cooling Infrared Detectors Sales Forecast by Country (2027-2032) & (K Units)
Table 62. Americas Cooling Infrared Detectors Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 63. APAC Cooling Infrared Detectors Sales Forecast by Region (2027-2032) & (K Units)
Table 64. APAC Cooling Infrared Detectors Annual Revenue Forecast by Region (2027-2032) & ($ millions)
Table 65. Europe Cooling Infrared Detectors Sales Forecast by Country (2027-2032) & (K Units)
Table 66. Europe Cooling Infrared Detectors Revenue Forecast by Country (2027-2032) & ($ millions)
Table 67. Middle East & Africa Cooling Infrared Detectors Sales Forecast by Country (2027-2032) & (K Units)
Table 68. Middle East & Africa Cooling Infrared Detectors Revenue Forecast by Country (2027-2032) & ($ millions)
Table 69. Global Cooling Infrared Detectors Sales Forecast by Type (2027-2032) & (K Units)

+357 96 030922
info@marketpublishers.com

Table 70. Global Cooling Infrared Detectors Revenue Forecast by Type (2027-2032) & ($ millions)
Table 71. Global Cooling Infrared Detectors Sales Forecast by Application (2027-2032) & (K Units)
Table 72. Global Cooling Infrared Detectors Revenue Forecast by Application (2027-2032) & ($ millions)
Table 73. Global Sensor Technology Basic Information, Cooling Infrared Detectors Manufacturing Base, Sales Area and Its Competitors
Table 74. Global Sensor Technology Cooling Infrared Detectors Product Portfolios and Specifications
Table 75. Global Sensor Technology Cooling Infrared Detectors Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 76. Global Sensor Technology Main Business
Table 77. Global Sensor Technology Latest Developments
Table 78. Lockheed Martin Basic Information, Cooling Infrared Detectors Manufacturing Base, Sales Area and Its Competitors
Table 79. Lockheed Martin Cooling Infrared Detectors Product Portfolios and Specifications
Table 80. Lockheed Martin Cooling Infrared Detectors Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 81. Lockheed Martin Main Business
Table 82. Lockheed Martin Latest Developments
Table 83. Raytheon Technologies Basic Information, Cooling Infrared Detectors Manufacturing Base, Sales Area and Its Competitors
Table 84. Raytheon Technologies Cooling Infrared Detectors Product Portfolios and Specifications
Table 85. Raytheon Technologies Cooling Infrared Detectors Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 86. Raytheon Technologies Main Business
Table 87. Raytheon Technologies Latest Developments
Table 88. L3 Technologies Basic Information, Cooling Infrared Detectors Manufacturing Base, Sales Area and Its Competitors
Table 89. L3 Technologies Cooling Infrared Detectors Product Portfolios and Specifications
Table 90. L3 Technologies Cooling Infrared Detectors Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 91. L3 Technologies Main Business
Table 92. L3 Technologies Latest Developments
Table 93. Thales Group Basic Information, Cooling Infrared Detectors Manufacturing

+357 96 030922
info@marketpublishers.com

Base, Sales Area and Its Competitors
Table 94. Thales Group Cooling Infrared Detectors Product Portfolios and Specifications
Table 95. Thales Group Cooling Infrared Detectors Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 96. Thales Group Main Business
Table 97. Thales Group Latest Developments
Table 98. Teledyne FLIR Basic Information, Cooling Infrared Detectors Manufacturing Base, Sales Area and Its Competitors
Table 99. Teledyne FLIR Cooling Infrared Detectors Product Portfolios and Specifications
Table 100. Teledyne FLIR Cooling Infrared Detectors Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 101. Teledyne FLIR Main Business
Table 102. Teledyne FLIR Latest Developments
Table 103. SAGEM Basic Information, Cooling Infrared Detectors Manufacturing Base, Sales Area and Its Competitors
Table 104. SAGEM Cooling Infrared Detectors Product Portfolios and Specifications
Table 105. SAGEM Cooling Infrared Detectors Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 106. SAGEM Main Business
Table 107. SAGEM Latest Developments
Table 108. Northrop Grumman Corporation Basic Information, Cooling Infrared Detectors Manufacturing Base, Sales Area and Its Competitors
Table 109. Northrop Grumman Corporation Cooling Infrared Detectors Product Portfolios and Specifications
Table 110. Northrop Grumman Corporation Cooling Infrared Detectors Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 111. Northrop Grumman Corporation Main Business
Table 112. Northrop Grumman Corporation Latest Developments
Table 113. Collins Aerospace Basic Information, Cooling Infrared Detectors Manufacturing Base, Sales Area and Its Competitors
Table 114. Collins Aerospace Cooling Infrared Detectors Product Portfolios and Specifications
Table 115. Collins Aerospace Cooling Infrared Detectors Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 116. Collins Aerospace Main Business
Table 117. Collins Aerospace Latest Developments
Table 118. BAE Systems Basic Information, Cooling Infrared Detectors Manufacturing

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Base, Sales Area and Its Competitors
Table 119. BAE Systems Cooling Infrared Detectors Product Portfolios and Specifications
Table 120. BAE Systems Cooling Infrared Detectors Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 121. BAE Systems Main Business
Table 122. BAE Systems Latest Developments
Table 123. Elbit Systems Basic Information, Cooling Infrared Detectors Manufacturing Base, Sales Area and Its Competitors
Table 124. Elbit Systems Cooling Infrared Detectors Product Portfolios and Specifications
Table 125. Elbit Systems Cooling Infrared Detectors Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 126. Elbit Systems Main Business
Table 127. Elbit Systems Latest Developments
Table 128. TSKGV Basic Information, Cooling Infrared Detectors Manufacturing Base, Sales Area and Its Competitors
Table 129. TSKGV Cooling Infrared Detectors Product Portfolios and Specifications
Table 130. TSKGV Cooling Infrared Detectors Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 131. TSKGV Main Business
Table 132. TSKGV Latest Developments
Table 133. Wuhan Gaode Infrared Co.,Ltd. Basic Information, Cooling Infrared Detectors Manufacturing Base, Sales Area and Its Competitors
Table 134. Wuhan Gaode Infrared Co.,Ltd. Cooling Infrared Detectors Product Portfolios and Specifications
Table 135. Wuhan Gaode Infrared Co.,Ltd. Cooling Infrared Detectors Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 136. Wuhan Gaode Infrared Co.,Ltd. Main Business
Table 137. Wuhan Gaode Infrared Co.,Ltd. Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Cooling Infrared Detectors
Figure 2. Cooling Infrared Detectors Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Cooling Infrared Detectors Sales Growth Rate 2021-2032 (K Units)
Figure 7. Global Cooling Infrared Detectors Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. Cooling Infrared Detectors Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. Cooling Infrared Detectors Sales Market Share by Country/Region (2025)
Figure 10. Cooling Infrared Detectors Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of Mid-Wave Infrared Detector
Figure 12. Product Picture of Long Wave Infrared Detector
Figure 13. Product Picture of Dual Color Infrared Detectors
Figure 14. Global Cooling Infrared Detectors Sales Market Share by Type in 2026
Figure 15. Global Cooling Infrared Detectors Revenue Market Share by Type (2021-2026)
Figure 16. Cooling Infrared Detectors Consumed in Medical Diagnosis
Figure 17. Global Cooling Infrared Detectors Market: Medical Diagnosis (2021-2026) & (K Units)
Figure 18. Cooling Infrared Detectors Consumed in Epidemic Prevention
Figure 19. Global Cooling Infrared Detectors Market: Epidemic Prevention (2021-2026) & (K Units)
Figure 20. Cooling Infrared Detectors Consumed in Metallurgical Petrochemical
Figure 21. Global Cooling Infrared Detectors Market: Metallurgical Petrochemical (2021-2026) & (K Units)
Figure 22. Cooling Infrared Detectors Consumed in Building HVAC
Figure 23. Global Cooling Infrared Detectors Market: Building HVAC (2021-2026) & (K Units)
Figure 24. Cooling Infrared Detectors Consumed in Machine Vision
Figure 25. Global Cooling Infrared Detectors Market: Machine Vision (2021-2026) & (K Units)
Figure 26. Cooling Infrared Detectors Consumed in Power Industry

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Figure 27. Global Cooling Infrared Detectors Market: Power Industry (2021-2026) & (K Units)
Figure 28. Global Cooling Infrared Detectors Sale Market Share by Application (2025)
Figure 29. Global Cooling Infrared Detectors Revenue Market Share by Application in 2026
Figure 30. Cooling Infrared Detectors Sales by Company in 2026 (K Units)
Figure 31. Global Cooling Infrared Detectors Sales Market Share by Company in 2026
Figure 32. Cooling Infrared Detectors Revenue by Company in 2026 ($ millions)
Figure 33. Global Cooling Infrared Detectors Revenue Market Share by Company in 2026
Figure 34. Global Cooling Infrared Detectors Sales Market Share by Geographic Region (2021-2026)
Figure 35. Global Cooling Infrared Detectors Revenue Market Share by Geographic Region in 2026
Figure 36. Americas Cooling Infrared Detectors Sales 2021-2026 (K Units)
Figure 37. Americas Cooling Infrared Detectors Revenue 2021-2026 ($ millions)
Figure 38. APAC Cooling Infrared Detectors Sales 2021-2026 (K Units)
Figure 39. APAC Cooling Infrared Detectors Revenue 2021-2026 ($ millions)
Figure 40. Europe Cooling Infrared Detectors Sales 2021-2026 (K Units)
Figure 41. Europe Cooling Infrared Detectors Revenue 2021-2026 ($ millions)
Figure 42. Middle East & Africa Cooling Infrared Detectors Sales 2021-2026 (K Units)
Figure 43. Middle East & Africa Cooling Infrared Detectors Revenue 2021-2026 ($ millions)
Figure 44. Americas Cooling Infrared Detectors Sales Market Share by Country in 2026
Figure 45. Americas Cooling Infrared Detectors Revenue Market Share by Country (2021-2026)
Figure 46. Americas Cooling Infrared Detectors Sales Market Share by Type (2021-2026)
Figure 47. Americas Cooling Infrared Detectors Sales Market Share by Application (2021-2026)
Figure 48. United States Cooling Infrared Detectors Revenue Growth 2021-2026 ($ millions)
Figure 49. Canada Cooling Infrared Detectors Revenue Growth 2021-2026 ($ millions)
Figure 50. Mexico Cooling Infrared Detectors Revenue Growth 2021-2026 ($ millions)
Figure 51. Brazil Cooling Infrared Detectors Revenue Growth 2021-2026 ($ millions)
Figure 52. APAC Cooling Infrared Detectors Sales Market Share by Region in 2026
Figure 53. APAC Cooling Infrared Detectors Revenue Market Share by Region (2021-2026)
Figure 54. APAC Cooling Infrared Detectors Sales Market Share by Type (2021-2026)

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Figure 55. APAC Cooling Infrared Detectors Sales Market Share by Application (2021-2026)
Figure 56. China Cooling Infrared Detectors Revenue Growth 2021-2026 ($ millions)
Figure 57. Japan Cooling Infrared Detectors Revenue Growth 2021-2026 ($ millions)
Figure 58. South Korea Cooling Infrared Detectors Revenue Growth 2021-2026 ($ millions)
Figure 59. Southeast Asia Cooling Infrared Detectors Revenue Growth 2021-2026 ($ millions)
Figure 60. India Cooling Infrared Detectors Revenue Growth 2021-2026 ($ millions)
Figure 61. Australia Cooling Infrared Detectors Revenue Growth 2021-2026 ($ millions)
Figure 62. China Taiwan Cooling Infrared Detectors Revenue Growth 2021-2026 ($ millions)
Figure 63. Europe Cooling Infrared Detectors Sales Market Share by Country in 2026
Figure 64. Europe Cooling Infrared Detectors Revenue Market Share by Country (2021-2026)
Figure 65. Europe Cooling Infrared Detectors Sales Market Share by Type (2021-2026)
Figure 66. Europe Cooling Infrared Detectors Sales Market Share by Application (2021-2026)
Figure 67. Germany Cooling Infrared Detectors Revenue Growth 2021-2026 ($ millions)
Figure 68. France Cooling Infrared Detectors Revenue Growth 2021-2026 ($ millions)
Figure 69. UK Cooling Infrared Detectors Revenue Growth 2021-2026 ($ millions)
Figure 70. Italy Cooling Infrared Detectors Revenue Growth 2021-2026 ($ millions)
Figure 71. Russia Cooling Infrared Detectors Revenue Growth 2021-2026 ($ millions)
Figure 72. Middle East & Africa Cooling Infrared Detectors Sales Market Share by Country (2021-2026)
Figure 73. Middle East & Africa Cooling Infrared Detectors Sales Market Share by Type (2021-2026)
Figure 74. Middle East & Africa Cooling Infrared Detectors Sales Market Share by Application (2021-2026)
Figure 75. Egypt Cooling Infrared Detectors Revenue Growth 2021-2026 ($ millions)
Figure 76. South Africa Cooling Infrared Detectors Revenue Growth 2021-2026 ($ millions)
Figure 77. Israel Cooling Infrared Detectors Revenue Growth 2021-2026 ($ millions)
Figure 78. Turkey Cooling Infrared Detectors Revenue Growth 2021-2026 ($ millions)
Figure 79. GCC Countries Cooling Infrared Detectors Revenue Growth 2021-2026 ($ millions)
Figure 80. Manufacturing Cost Structure Analysis of Cooling Infrared Detectors in 2026
Figure 81. Manufacturing Process Analysis of Cooling Infrared Detectors
Figure 82. Industry Chain Structure of Cooling Infrared Detectors

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Figure 83. Channels of Distribution
Figure 84. Global Cooling Infrared Detectors Sales Market Forecast by Region (2027-2032)
Figure 85. Global Cooling Infrared Detectors Revenue Market Share Forecast by Region (2027-2032)
Figure 86. Global Cooling Infrared Detectors Sales Market Share Forecast by Type (2027-2032)
Figure 87. Global Cooling Infrared Detectors Revenue Market Share Forecast by Type (2027-2032)
Figure 88. Global Cooling Infrared Detectors Sales Market Share Forecast by Application (2027-2032)
Figure 89. Global Cooling Infrared Detectors Revenue Market Share Forecast by Application (2027-2032)

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