

Global HgCdTe Infrared Detector Market Growth 2024-2030

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Abstracts

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According to our LPI (LP Information) latest study, the global HgCdTe Infrared Detector market size was valued at US\$ million in 2023. With growing demand in downstream market, the HgCdTe Infrared Detector is forecast to a readjusted size of US\$ million by 2030 with a CAGR of % during review period.

The research report highlights the growth potential of the global HgCdTe Infrared Detector market. HgCdTe Infrared Detector are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of HgCdTe Infrared Detector. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the HgCdTe Infrared Detector market.

Hg_{1-x}Cd_xTe (Hg_{1-x}Cd_xTe) is a kind of semiconductor material with adjustable band gap. By adjusting the composition of CD, the wavelength can completely cover the whole infrared band, such as short wave, medium wave, long wave and very long wave. The electronic transition of HgCdTe infrared detector by absorbing foreign photons is inter band transition. The material has large light absorption and high quantum efficiency, up to 70% ? 80%. The device has large light response and high response rate. In addition, HgCdTe has the advantages of small electron effective mass, high mobility, fast response and can be used as high-frequency devices, which makes it one of the most important infrared detector materials

Key Features:

The report on HgCdTe Infrared Detector market reflects various aspects and provide valuable insights into the industry.

Market Size and Growth: The research report provide an overview of the current size and growth of the HgCdTe Infrared Detector market. It may include historical data, market segmentation by Type (e.g., LN2 Cooled, Thermoelectrically (TE) Cooled), and regional breakdowns.

Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the HgCdTe Infrared Detector market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

Competitive Landscape: The research report provides analysis of the competitive landscape within the HgCdTe Infrared Detector market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

Technological Developments: The research report can delve into the latest technological developments in the HgCdTe Infrared Detector industry. This include advancements in HgCdTe Infrared Detector technology, HgCdTe Infrared Detector new entrants, HgCdTe Infrared Detector new investment, and other innovations that are shaping the future of HgCdTe Infrared Detector.

Downstream Procumbent Preference: The report can shed light on customer procumbent behaviour and adoption trends in the HgCdTe Infrared Detector market. It includes factors influencing customer ' purchasing decisions, preferences for HgCdTe Infrared Detector product.

Government Policies and Incentives: The research report analyse the impact of government policies and incentives on the HgCdTe Infrared Detector market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting HgCdTe Infrared Detector market. The report also evaluates the effectiveness of these policies in driving market growth.

Environmental Impact and Sustainability: The research report assess the environmental impact and sustainability aspects of the HgCdTe Infrared Detector market.

Market Forecasts and Future Outlook: Based on the analysis conducted, the research report provide market forecasts and outlook for the HgCdTe Infrared Detector industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

Recommendations and Opportunities: The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the HgCdTe Infrared Detector market.

Market Segmentation:

HgCdTe Infrared Detector market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Segmentation by type

LN2 Cooled

Thermoelectrically (TE) Cooled

Stirling Cooled

Segmentation by application

Military

Civil

Research

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

DRS

Raytheon

LETI

Sofradir

Selex

AIM

InfraRed Associates

Pro-Lite

Thorlabs

Teledyne Judson Technologies

VIGO System S.A.

Wuhan Guide

Key Questions Addressed in this Report

What is the 10-year outlook for the global HgCdTe Infrared Detector market?

What factors are driving HgCdTe Infrared Detector market growth, globally and by region?

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

How do HgCdTe Infrared Detector market opportunities vary by end market size?

How does HgCdTe Infrared Detector break out type, application?

Contents

1 SCOPE OF THE REPORT

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

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global HgCdTe Infrared Detector Annual Sales 2019-2030
 - 2.1.2 World Current & Future Analysis for HgCdTe Infrared Detector by Geographic Region, 2019, 2023 & 2030
 - 2.1.3 World Current & Future Analysis for HgCdTe Infrared Detector by Country/Region, 2019, 2023 & 2030
- 2.2 HgCdTe Infrared Detector Segment by Type
 - 2.2.1 LN2 Cooled
 - 2.2.2 Thermoelectrically (TE) Cooled
 - 2.2.3 Stirling Cooled
- 2.3 HgCdTe Infrared Detector Sales by Type
 - 2.3.1 Global HgCdTe Infrared Detector Sales Market Share by Type (2019-2024)
 - 2.3.2 Global HgCdTe Infrared Detector Revenue and Market Share by Type (2019-2024)
 - 2.3.3 Global HgCdTe Infrared Detector Sale Price by Type (2019-2024)
- 2.4 HgCdTe Infrared Detector Segment by Application
 - 2.4.1 Military
 - 2.4.2 Civil
 - 2.4.3 Research
- 2.5 HgCdTe Infrared Detector Sales by Application
 - 2.5.1 Global HgCdTe Infrared Detector Sale Market Share by Application (2019-2024)
 - 2.5.2 Global HgCdTe Infrared Detector Revenue and Market Share by Application (2019-2024)
 - 2.5.3 Global HgCdTe Infrared Detector Sale Price by Application (2019-2024)

3 GLOBAL HGCDTE INFRARED DETECTOR BY COMPANY

3.1 Global HgCdTe Infrared Detector Breakdown Data by Company

3.1.1 Global HgCdTe Infrared Detector Annual Sales by Company (2019-2024)

3.1.2 Global HgCdTe Infrared Detector Sales Market Share by Company (2019-2024)

3.2 Global HgCdTe Infrared Detector Annual Revenue by Company (2019-2024)

3.2.1 Global HgCdTe Infrared Detector Revenue by Company (2019-2024)

3.2.2 Global HgCdTe Infrared Detector Revenue Market Share by Company (2019-2024)

3.3 Global HgCdTe Infrared Detector Sale Price by Company

3.4 Key Manufacturers HgCdTe Infrared Detector Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers HgCdTe Infrared Detector Product Location Distribution

3.4.2 Players HgCdTe Infrared Detector Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2019-2024)

3.6 New Products and Potential Entrants

3.7 Mergers & Acquisitions, Expansion

4 WORLD HISTORIC REVIEW FOR HGCDTE INFRARED DETECTOR BY GEOGRAPHIC REGION

4.1 World Historic HgCdTe Infrared Detector Market Size by Geographic Region (2019-2024)

4.1.1 Global HgCdTe Infrared Detector Annual Sales by Geographic Region (2019-2024)

4.1.2 Global HgCdTe Infrared Detector Annual Revenue by Geographic Region (2019-2024)

4.2 World Historic HgCdTe Infrared Detector Market Size by Country/Region (2019-2024)

4.2.1 Global HgCdTe Infrared Detector Annual Sales by Country/Region (2019-2024)

4.2.2 Global HgCdTe Infrared Detector Annual Revenue by Country/Region (2019-2024)

4.3 Americas HgCdTe Infrared Detector Sales Growth

4.4 APAC HgCdTe Infrared Detector Sales Growth

4.5 Europe HgCdTe Infrared Detector Sales Growth

4.6 Middle East & Africa HgCdTe Infrared Detector Sales Growth

5 AMERICAS

5.1 Americas HgCdTe Infrared Detector Sales by Country

5.1.1 Americas HgCdTe Infrared Detector Sales by Country (2019-2024)

5.1.2 Americas HgCdTe Infrared Detector Revenue by Country (2019-2024)

5.2 Americas HgCdTe Infrared Detector Sales by Type

5.3 Americas HgCdTe Infrared Detector Sales by Application

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC HgCdTe Infrared Detector Sales by Region

6.1.1 APAC HgCdTe Infrared Detector Sales by Region (2019-2024)

6.1.2 APAC HgCdTe Infrared Detector Revenue by Region (2019-2024)

6.2 APAC HgCdTe Infrared Detector Sales by Type

6.3 APAC HgCdTe Infrared Detector Sales by Application

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 HgCdTe Infrared Detector by Country

7.1.1 Europe HgCdTe Infrared Detector Sales by Country (2019-2024)

7.1.2 Europe HgCdTe Infrared Detector Revenue by Country (2019-2024)

7.2 Europe HgCdTe Infrared Detector Sales by Type

7.3 Europe HgCdTe Infrared Detector Sales by Application

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa HgCdTe Infrared Detector by Country

8.1.1 Middle East & Africa HgCdTe Infrared Detector Sales by Country (2019-2024)

8.1.2 Middle East & Africa HgCdTe Infrared Detector Revenue by Country (2019-2024)

8.2 Middle East & Africa HgCdTe Infrared Detector Sales by Type

8.3 Middle East & Africa HgCdTe Infrared Detector Sales by Application

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 HgCdTe Infrared Detector

10.3 Manufacturing Process Analysis of HgCdTe Infrared Detector

10.4 Industry Chain Structure of HgCdTe Infrared Detector

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 HgCdTe Infrared Detector Distributors

11.3 HgCdTe Infrared Detector Customer

12 WORLD FORECAST REVIEW FOR HGCDTE INFRARED DETECTOR BY GEOGRAPHIC REGION

- 12.1 Global HgCdTe Infrared Detector Market Size Forecast by Region
 - 12.1.1 Global HgCdTe Infrared Detector Forecast by Region (2025-2030)
 - 12.1.2 Global HgCdTe Infrared Detector Annual Revenue Forecast by Region (2025-2030)
- 12.2 Americas Forecast by Country
- 12.3 APAC Forecast by Region
- 12.4 Europe Forecast by Country
- 12.5 Middle East & Africa Forecast by Country
- 12.6 Global HgCdTe Infrared Detector Forecast by Type
- 12.7 Global HgCdTe Infrared Detector Forecast by Application

13 KEY PLAYERS ANALYSIS

- 13.1 DRS
 - 13.1.1 DRS Company Information
 - 13.1.2 DRS HgCdTe Infrared Detector Product Portfolios and Specifications
 - 13.1.3 DRS HgCdTe Infrared Detector Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.1.4 DRS Main Business Overview
 - 13.1.5 DRS Latest Developments
- 13.2 Raytheon
 - 13.2.1 Raytheon Company Information
 - 13.2.2 Raytheon HgCdTe Infrared Detector Product Portfolios and Specifications
 - 13.2.3 Raytheon HgCdTe Infrared Detector Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.2.4 Raytheon Main Business Overview
 - 13.2.5 Raytheon Latest Developments
- 13.3 LETI
 - 13.3.1 LETI Company Information
 - 13.3.2 LETI HgCdTe Infrared Detector Product Portfolios and Specifications
 - 13.3.3 LETI HgCdTe Infrared Detector Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.3.4 LETI Main Business Overview
 - 13.3.5 LETI Latest Developments
- 13.4 Sofradir
 - 13.4.1 Sofradir Company Information
 - 13.4.2 Sofradir HgCdTe Infrared Detector Product Portfolios and Specifications
 - 13.4.3 Sofradir HgCdTe Infrared Detector Sales, Revenue, Price and Gross Margin (2019-2024)

- 13.4.4 Sofradir Main Business Overview
- 13.4.5 Sofradir Latest Developments
- 13.5 Selex
 - 13.5.1 Selex Company Information
 - 13.5.2 Selex HgCdTe Infrared Detector Product Portfolios and Specifications
 - 13.5.3 Selex HgCdTe Infrared Detector Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.5.4 Selex Main Business Overview
 - 13.5.5 Selex Latest Developments
- 13.6 AIM
 - 13.6.1 AIM Company Information
 - 13.6.2 AIM HgCdTe Infrared Detector Product Portfolios and Specifications
 - 13.6.3 AIM HgCdTe Infrared Detector Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.6.4 AIM Main Business Overview
 - 13.6.5 AIM Latest Developments
- 13.7 InfraRed Associates
 - 13.7.1 InfraRed Associates Company Information
 - 13.7.2 InfraRed Associates HgCdTe Infrared Detector Product Portfolios and Specifications
 - 13.7.3 InfraRed Associates HgCdTe Infrared Detector Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.7.4 InfraRed Associates Main Business Overview
 - 13.7.5 InfraRed Associates Latest Developments
- 13.8 Pro-Lite
 - 13.8.1 Pro-Lite Company Information
 - 13.8.2 Pro-Lite HgCdTe Infrared Detector Product Portfolios and Specifications
 - 13.8.3 Pro-Lite HgCdTe Infrared Detector Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.8.4 Pro-Lite Main Business Overview
 - 13.8.5 Pro-Lite Latest Developments
- 13.9 Thorlabs
 - 13.9.1 Thorlabs Company Information
 - 13.9.2 Thorlabs HgCdTe Infrared Detector Product Portfolios and Specifications
 - 13.9.3 Thorlabs HgCdTe Infrared Detector Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.9.4 Thorlabs Main Business Overview
 - 13.9.5 Thorlabs Latest Developments
- 13.10 Teledyne Judson Technologies

- 13.10.1 Teledyne Judson Technologies Company Information
- 13.10.2 Teledyne Judson Technologies HgCdTe Infrared Detector Product Portfolios and Specifications
- 13.10.3 Teledyne Judson Technologies HgCdTe Infrared Detector Sales, Revenue, Price and Gross Margin (2019-2024)
- 13.10.4 Teledyne Judson Technologies Main Business Overview
- 13.10.5 Teledyne Judson Technologies Latest Developments
- 13.11 VIGO System S.A.
 - 13.11.1 VIGO System S.A. Company Information
 - 13.11.2 VIGO System S.A. HgCdTe Infrared Detector Product Portfolios and Specifications
 - 13.11.3 VIGO System S.A. HgCdTe Infrared Detector Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.11.4 VIGO System S.A. Main Business Overview
 - 13.11.5 VIGO System S.A. Latest Developments
- 13.12 Wuhan Guide
 - 13.12.1 Wuhan Guide Company Information
 - 13.12.2 Wuhan Guide HgCdTe Infrared Detector Product Portfolios and Specifications
 - 13.12.3 Wuhan Guide HgCdTe Infrared Detector Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.12.4 Wuhan Guide Main Business Overview
 - 13.12.5 Wuhan Guide Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. HgCdTe Infrared Detector Annual Sales CAGR by Geographic Region (2019, 2023 & 2030) & (\$ millions)

Table 2. HgCdTe Infrared Detector Annual Sales CAGR by Country/Region (2019, 2023 & 2030) & (\$ millions)

Table 3. Major Players of LN2 Cooled

Table 4. Major Players of Thermoelectrically (TE) Cooled

Table 5. Major Players of Stirling Cooled

Table 6. Global HgCdTe Infrared Detector Sales by Type (2019-2024) & (K Units)

Table 7. Global HgCdTe Infrared Detector Sales Market Share by Type (2019-2024)

Table 8. Global HgCdTe Infrared Detector Revenue by Type (2019-2024) & (\$ million)

Table 9. Global HgCdTe Infrared Detector Revenue Market Share by Type (2019-2024)

Table 10. Global HgCdTe Infrared Detector Sale Price by Type (2019-2024) & (US\$/Unit)

Table 11. Global HgCdTe Infrared Detector Sales by Application (2019-2024) & (K Units)

Table 12. Global HgCdTe Infrared Detector Sales Market Share by Application (2019-2024)

Table 13. Global HgCdTe Infrared Detector Revenue by Application (2019-2024)

Table 14. Global HgCdTe Infrared Detector Revenue Market Share by Application (2019-2024)

Table 15. Global HgCdTe Infrared Detector Sale Price by Application (2019-2024) & (US\$/Unit)

Table 16. Global HgCdTe Infrared Detector Sales by Company (2019-2024) & (K Units)

Table 17. Global HgCdTe Infrared Detector Sales Market Share by Company (2019-2024)

Table 18. Global HgCdTe Infrared Detector Revenue by Company (2019-2024) (\$ Millions)

Table 19. Global HgCdTe Infrared Detector Revenue Market Share by Company (2019-2024)

Table 20. Global HgCdTe Infrared Detector Sale Price by Company (2019-2024) & (US\$/Unit)

Table 21. Key Manufacturers HgCdTe Infrared Detector Producing Area Distribution and Sales Area

Table 22. Players HgCdTe Infrared Detector Products Offered

Table 23. HgCdTe Infrared Detector Concentration Ratio (CR3, CR5 and CR10) &

(2019-2024)

Table 24. New Products and Potential Entrants

Table 25. Mergers & Acquisitions, Expansion

Table 26. Global HgCdTe Infrared Detector Sales by Geographic Region (2019-2024) & (K Units)

Table 27. Global HgCdTe Infrared Detector Sales Market Share Geographic Region (2019-2024)

Table 28. Global HgCdTe Infrared Detector Revenue by Geographic Region (2019-2024) & (\$ millions)

Table 29. Global HgCdTe Infrared Detector Revenue Market Share by Geographic Region (2019-2024)

Table 30. Global HgCdTe Infrared Detector Sales by Country/Region (2019-2024) & (K Units)

Table 31. Global HgCdTe Infrared Detector Sales Market Share by Country/Region (2019-2024)

Table 32. Global HgCdTe Infrared Detector Revenue by Country/Region (2019-2024) & (\$ millions)

Table 33. Global HgCdTe Infrared Detector Revenue Market Share by Country/Region (2019-2024)

Table 34. Americas HgCdTe Infrared Detector Sales by Country (2019-2024) & (K Units)

Table 35. Americas HgCdTe Infrared Detector Sales Market Share by Country (2019-2024)

Table 36. Americas HgCdTe Infrared Detector Revenue by Country (2019-2024) & (\$ Millions)

Table 37. Americas HgCdTe Infrared Detector Revenue Market Share by Country (2019-2024)

Table 38. Americas HgCdTe Infrared Detector Sales by Type (2019-2024) & (K Units)

Table 39. Americas HgCdTe Infrared Detector Sales by Application (2019-2024) & (K Units)

Table 40. APAC HgCdTe Infrared Detector Sales by Region (2019-2024) & (K Units)

Table 41. APAC HgCdTe Infrared Detector Sales Market Share by Region (2019-2024)

Table 42. APAC HgCdTe Infrared Detector Revenue by Region (2019-2024) & (\$ Millions)

Table 43. APAC HgCdTe Infrared Detector Revenue Market Share by Region (2019-2024)

Table 44. APAC HgCdTe Infrared Detector Sales by Type (2019-2024) & (K Units)

Table 45. APAC HgCdTe Infrared Detector Sales by Application (2019-2024) & (K Units)

Table 46. Europe HgCdTe Infrared Detector Sales by Country (2019-2024) & (K Units)
Table 47. Europe HgCdTe Infrared Detector Sales Market Share by Country (2019-2024)
Table 48. Europe HgCdTe Infrared Detector Revenue by Country (2019-2024) & (\$ Millions)
Table 49. Europe HgCdTe Infrared Detector Revenue Market Share by Country (2019-2024)
Table 50. Europe HgCdTe Infrared Detector Sales by Type (2019-2024) & (K Units)
Table 51. Europe HgCdTe Infrared Detector Sales by Application (2019-2024) & (K Units)
Table 52. Middle East & Africa HgCdTe Infrared Detector Sales by Country (2019-2024) & (K Units)
Table 53. Middle East & Africa HgCdTe Infrared Detector Sales Market Share by Country (2019-2024)
Table 54. Middle East & Africa HgCdTe Infrared Detector Revenue by Country (2019-2024) & (\$ Millions)
Table 55. Middle East & Africa HgCdTe Infrared Detector Revenue Market Share by Country (2019-2024)
Table 56. Middle East & Africa HgCdTe Infrared Detector Sales by Type (2019-2024) & (K Units)
Table 57. Middle East & Africa HgCdTe Infrared Detector Sales by Application (2019-2024) & (K Units)
Table 58. Key Market Drivers & Growth Opportunities of HgCdTe Infrared Detector
Table 59. Key Market Challenges & Risks of HgCdTe Infrared Detector
Table 60. Key Industry Trends of HgCdTe Infrared Detector
Table 61. HgCdTe Infrared Detector Raw Material
Table 62. Key Suppliers of Raw Materials
Table 63. HgCdTe Infrared Detector Distributors List
Table 64. HgCdTe Infrared Detector Customer List
Table 65. Global HgCdTe Infrared Detector Sales Forecast by Region (2025-2030) & (K Units)
Table 66. Global HgCdTe Infrared Detector Revenue Forecast by Region (2025-2030) & (\$ millions)
Table 67. Americas HgCdTe Infrared Detector Sales Forecast by Country (2025-2030) & (K Units)
Table 68. Americas HgCdTe Infrared Detector Revenue Forecast by Country (2025-2030) & (\$ millions)
Table 69. APAC HgCdTe Infrared Detector Sales Forecast by Region (2025-2030) & (K Units)

Table 70. APAC HgCdTe Infrared Detector Revenue Forecast by Region (2025-2030) & (\$ millions)

Table 71. Europe HgCdTe Infrared Detector Sales Forecast by Country (2025-2030) & (K Units)

Table 72. Europe HgCdTe Infrared Detector Revenue Forecast by Country (2025-2030) & (\$ millions)

Table 73. Middle East & Africa HgCdTe Infrared Detector Sales Forecast by Country (2025-2030) & (K Units)

Table 74. Middle East & Africa HgCdTe Infrared Detector Revenue Forecast by Country (2025-2030) & (\$ millions)

Table 75. Global HgCdTe Infrared Detector Sales Forecast by Type (2025-2030) & (K Units)

Table 76. Global HgCdTe Infrared Detector Revenue Forecast by Type (2025-2030) & (\$ Millions)

Table 77. Global HgCdTe Infrared Detector Sales Forecast by Application (2025-2030) & (K Units)

Table 78. Global HgCdTe Infrared Detector Revenue Forecast by Application (2025-2030) & (\$ Millions)

Table 79. DRS Basic Information, HgCdTe Infrared Detector Manufacturing Base, Sales Area and Its Competitors

Table 80. DRS HgCdTe Infrared Detector Product Portfolios and Specifications

Table 81. DRS HgCdTe Infrared Detector Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 82. DRS Main Business

Table 83. DRS Latest Developments

Table 84. Raytheon Basic Information, HgCdTe Infrared Detector Manufacturing Base, Sales Area and Its Competitors

Table 85. Raytheon HgCdTe Infrared Detector Product Portfolios and Specifications

Table 86. Raytheon HgCdTe Infrared Detector Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 87. Raytheon Main Business

Table 88. Raytheon Latest Developments

Table 89. LETI Basic Information, HgCdTe Infrared Detector Manufacturing Base, Sales Area and Its Competitors

Table 90. LETI HgCdTe Infrared Detector Product Portfolios and Specifications

Table 91. LETI HgCdTe Infrared Detector Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 92. LETI Main Business

Table 93. LETI Latest Developments

Table 94. Sofradir Basic Information, HgCdTe Infrared Detector Manufacturing Base, Sales Area and Its Competitors

Table 95. Sofradir HgCdTe Infrared Detector Product Portfolios and Specifications

Table 96. Sofradir HgCdTe Infrared Detector Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 97. Sofradir Main Business

Table 98. Sofradir Latest Developments

Table 99. Selex Basic Information, HgCdTe Infrared Detector Manufacturing Base, Sales Area and Its Competitors

Table 100. Selex HgCdTe Infrared Detector Product Portfolios and Specifications

Table 101. Selex HgCdTe Infrared Detector Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 102. Selex Main Business

Table 103. Selex Latest Developments

Table 104. AIM Basic Information, HgCdTe Infrared Detector Manufacturing Base, Sales Area and Its Competitors

Table 105. AIM HgCdTe Infrared Detector Product Portfolios and Specifications

Table 106. AIM HgCdTe Infrared Detector Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 107. AIM Main Business

Table 108. AIM Latest Developments

Table 109. InfraRed Associates Basic Information, HgCdTe Infrared Detector Manufacturing Base, Sales Area and Its Competitors

Table 110. InfraRed Associates HgCdTe Infrared Detector Product Portfolios and Specifications

Table 111. InfraRed Associates HgCdTe Infrared Detector Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 112. InfraRed Associates Main Business

Table 113. InfraRed Associates Latest Developments

Table 114. Pro-Lite Basic Information, HgCdTe Infrared Detector Manufacturing Base, Sales Area and Its Competitors

Table 115. Pro-Lite HgCdTe Infrared Detector Product Portfolios and Specifications

Table 116. Pro-Lite HgCdTe Infrared Detector Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 117. Pro-Lite Main Business

Table 118. Pro-Lite Latest Developments

Table 119. Thorlabs Basic Information, HgCdTe Infrared Detector Manufacturing Base, Sales Area and Its Competitors

Table 120. Thorlabs HgCdTe Infrared Detector Product Portfolios and Specifications

Table 121. Thorlabs HgCdTe Infrared Detector Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 122. Thorlabs Main Business

Table 123. Thorlabs Latest Developments

Table 124. Teledyne Judson Technologies Basic Information, HgCdTe Infrared Detector Manufacturing Base, Sales Area and Its Competitors

Table 125. Teledyne Judson Technologies HgCdTe Infrared Detector Product Portfolios and Specifications

Table 126. Teledyne Judson Technologies HgCdTe Infrared Detector Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 127. Teledyne Judson Technologies Main Business

Table 128. Teledyne Judson Technologies Latest Developments

Table 129. VIGO System S.A. Basic Information, HgCdTe Infrared Detector Manufacturing Base, Sales Area and Its Competitors

Table 130. VIGO System S.A. HgCdTe Infrared Detector Product Portfolios and Specifications

Table 131. VIGO System S.A. HgCdTe Infrared Detector Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 132. VIGO System S.A. Main Business

Table 133. VIGO System S.A. Latest Developments

Table 134. Wuhan Guide Basic Information, HgCdTe Infrared Detector Manufacturing Base, Sales Area and Its Competitors

Table 135. Wuhan Guide HgCdTe Infrared Detector Product Portfolios and Specifications

Table 136. Wuhan Guide HgCdTe Infrared Detector Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 137. Wuhan Guide Main Business

Table 138. Wuhan Guide Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of HgCdTe Infrared Detector
- Figure 2. HgCdTe Infrared Detector Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global HgCdTe Infrared Detector Sales Growth Rate 2019-2030 (K Units)
- Figure 7. Global HgCdTe Infrared Detector Revenue Growth Rate 2019-2030 (\$ Millions)
- Figure 8. HgCdTe Infrared Detector Sales by Region (2019, 2023 & 2030) & (\$ Millions)
- Figure 9. Product Picture of LN2 Cooled
- Figure 10. Product Picture of Thermoelectrically (TE) Cooled
- Figure 11. Product Picture of Stirling Cooled
- Figure 12. Global HgCdTe Infrared Detector Sales Market Share by Type in 2023
- Figure 13. Global HgCdTe Infrared Detector Revenue Market Share by Type (2019-2024)
- Figure 14. HgCdTe Infrared Detector Consumed in Military
- Figure 15. Global HgCdTe Infrared Detector Market: Military (2019-2024) & (K Units)
- Figure 16. HgCdTe Infrared Detector Consumed in Civil
- Figure 17. Global HgCdTe Infrared Detector Market: Civil (2019-2024) & (K Units)
- Figure 18. HgCdTe Infrared Detector Consumed in Research
- Figure 19. Global HgCdTe Infrared Detector Market: Research (2019-2024) & (K Units)
- Figure 20. Global HgCdTe Infrared Detector Sales Market Share by Application (2023)
- Figure 21. Global HgCdTe Infrared Detector Revenue Market Share by Application in 2023
- Figure 22. HgCdTe Infrared Detector Sales Market by Company in 2023 (K Units)
- Figure 23. Global HgCdTe Infrared Detector Sales Market Share by Company in 2023
- Figure 24. HgCdTe Infrared Detector Revenue Market by Company in 2023 (\$ Million)
- Figure 25. Global HgCdTe Infrared Detector Revenue Market Share by Company in 2023
- Figure 26. Global HgCdTe Infrared Detector Sales Market Share by Geographic Region (2019-2024)
- Figure 27. Global HgCdTe Infrared Detector Revenue Market Share by Geographic Region in 2023
- Figure 28. Americas HgCdTe Infrared Detector Sales 2019-2024 (K Units)
- Figure 29. Americas HgCdTe Infrared Detector Revenue 2019-2024 (\$ Millions)

- Figure 30. APAC HgCdTe Infrared Detector Sales 2019-2024 (K Units)
- Figure 31. APAC HgCdTe Infrared Detector Revenue 2019-2024 (\$ Millions)
- Figure 32. Europe HgCdTe Infrared Detector Sales 2019-2024 (K Units)
- Figure 33. Europe HgCdTe Infrared Detector Revenue 2019-2024 (\$ Millions)
- Figure 34. Middle East & Africa HgCdTe Infrared Detector Sales 2019-2024 (K Units)
- Figure 35. Middle East & Africa HgCdTe Infrared Detector Revenue 2019-2024 (\$ Millions)
- Figure 36. Americas HgCdTe Infrared Detector Sales Market Share by Country in 2023
- Figure 37. Americas HgCdTe Infrared Detector Revenue Market Share by Country in 2023
- Figure 38. Americas HgCdTe Infrared Detector Sales Market Share by Type (2019-2024)
- Figure 39. Americas HgCdTe Infrared Detector Sales Market Share by Application (2019-2024)
- Figure 40. United States HgCdTe Infrared Detector Revenue Growth 2019-2024 (\$ Millions)
- Figure 41. Canada HgCdTe Infrared Detector Revenue Growth 2019-2024 (\$ Millions)
- Figure 42. Mexico HgCdTe Infrared Detector Revenue Growth 2019-2024 (\$ Millions)
- Figure 43. Brazil HgCdTe Infrared Detector Revenue Growth 2019-2024 (\$ Millions)
- Figure 44. APAC HgCdTe Infrared Detector Sales Market Share by Region in 2023
- Figure 45. APAC HgCdTe Infrared Detector Revenue Market Share by Regions in 2023
- Figure 46. APAC HgCdTe Infrared Detector Sales Market Share by Type (2019-2024)
- Figure 47. APAC HgCdTe Infrared Detector Sales Market Share by Application (2019-2024)
- Figure 48. China HgCdTe Infrared Detector Revenue Growth 2019-2024 (\$ Millions)
- Figure 49. Japan HgCdTe Infrared Detector Revenue Growth 2019-2024 (\$ Millions)
- Figure 50. South Korea HgCdTe Infrared Detector Revenue Growth 2019-2024 (\$ Millions)
- Figure 51. Southeast Asia HgCdTe Infrared Detector Revenue Growth 2019-2024 (\$ Millions)
- Figure 52. India HgCdTe Infrared Detector Revenue Growth 2019-2024 (\$ Millions)
- Figure 53. Australia HgCdTe Infrared Detector Revenue Growth 2019-2024 (\$ Millions)
- Figure 54. China Taiwan HgCdTe Infrared Detector Revenue Growth 2019-2024 (\$ Millions)
- Figure 55. Europe HgCdTe Infrared Detector Sales Market Share by Country in 2023
- Figure 56. Europe HgCdTe Infrared Detector Revenue Market Share by Country in 2023
- Figure 57. Europe HgCdTe Infrared Detector Sales Market Share by Type (2019-2024)
- Figure 58. Europe HgCdTe Infrared Detector Sales Market Share by Application

(2019-2024)

Figure 59. Germany HgCdTe Infrared Detector Revenue Growth 2019-2024 (\$ Millions)

Figure 60. France HgCdTe Infrared Detector Revenue Growth 2019-2024 (\$ Millions)

Figure 61. UK HgCdTe Infrared Detector Revenue Growth 2019-2024 (\$ Millions)

Figure 62. Italy HgCdTe Infrared Detector Revenue Growth 2019-2024 (\$ Millions)

Figure 63. Russia HgCdTe Infrared Detector Revenue Growth 2019-2024 (\$ Millions)

Figure 64. Middle East & Africa HgCdTe Infrared Detector Sales Market Share by Country in 2023

Figure 65. Middle East & Africa HgCdTe Infrared Detector Revenue Market Share by Country in 2023

Figure 66. Middle East & Africa HgCdTe Infrared Detector Sales Market Share by Type (2019-2024)

Figure 67. Middle East & Africa HgCdTe Infrared Detector Sales Market Share by Application (2019-2024)

Figure 68. Egypt HgCdTe Infrared Detector Revenue Growth 2019-2024 (\$ Millions)

Figure 69. South Africa HgCdTe Infrared Detector Revenue Growth 2019-2024 (\$ Millions)

Figure 70. Israel HgCdTe Infrared Detector Revenue Growth 2019-2024 (\$ Millions)

Figure 71. Turkey HgCdTe Infrared Detector Revenue Growth 2019-2024 (\$ Millions)

Figure 72. GCC Country HgCdTe Infrared Detector Revenue Growth 2019-2024 (\$ Millions)

Figure 73. Manufacturing Cost Structure Analysis of HgCdTe Infrared Detector in 2023

Figure 74. Manufacturing Process Analysis of HgCdTe Infrared Detector

Figure 75. Industry Chain Structure of HgCdTe Infrared Detector

Figure 76. Channels of Distribution

Figure 77. Global HgCdTe Infrared Detector Sales Market Forecast by Region (2025-2030)

Figure 78. Global HgCdTe Infrared Detector Revenue Market Share Forecast by Region (2025-2030)

Figure 79. Global HgCdTe Infrared Detector Sales Market Share Forecast by Type (2025-2030)

Figure 80. Global HgCdTe Infrared Detector Revenue Market Share Forecast by Type (2025-2030)

Figure 81. Global HgCdTe Infrared Detector Sales Market Share Forecast by Application (2025-2030)

Figure 82. Global HgCdTe Infrared Detector Revenue Market Share Forecast by Application (2025-2030)

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