

Global Uncooled Infrared Focal Plane Array Market Research Report 2026(Status and Outlook)

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Abstracts

An uncooled infrared focal plane array (FPA) is a type of sensor used to detect infrared radiation without the need for cryogenic cooling, which is typically required for other infrared sensors. This technology utilizes materials like vanadium oxide or amorphous silicon that change resistance when heated by infrared radiation. These changes are detected and converted into electronic signals to form thermal images. Uncooled FPAs are widely used in thermal cameras, night vision devices, and various industrial applications due to their lower cost, smaller size, and reduced power consumption compared to cooled detectors. Despite having lower sensitivity and resolution than cooled counterparts, they are highly effective for many practical applications where extreme sensitivity is not critical.

The global Uncooled Infrared Focal Plane Array market size was estimated at USD 1050.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 8.50% during the forecast period.

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

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Uncooled Infrared Focal Plane Array market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Uncooled Infrared Focal Plane Array market.

Global Uncooled Infrared Focal Plane Array Market: Market Segmentation Analysis

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

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

Key Company

Teledyne FLIR
Leonardo DRS
BAE Systems
Lockheed Martin
Lynred
VIGO Photonics
SCD
IRnova AB

Market Segmentation (by Type)

SWIR FPA
MWIR FPA

LWIR FPA

Market Segmentation (by Application)

Civilian

Military

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Uncooled Infrared Focal Plane Array Market

Overview of the regional outlook of the Uncooled Infrared Focal Plane Array Market:

Customization of the Report

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

Chapter Outline

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

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

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

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

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

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

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

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

Chapter 9 shares the main producing countries of Uncooled Infrared Focal Plane Array, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

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

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

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

Key Reasons to Buy this Report:

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

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

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

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

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

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

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

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

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

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

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

Provides insight into the market through Value Chain

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

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Uncooled Infrared Focal Plane Array
- 1.2 Key Market Segments
 - 1.2.1 Uncooled Infrared Focal Plane Array Segment by Type
 - 1.2.2 Uncooled Infrared Focal Plane Array Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 UNCOOLED INFRARED FOCAL PLANE ARRAY MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Uncooled Infrared Focal Plane Array Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Uncooled Infrared Focal Plane Array Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 UNCOOLED INFRARED FOCAL PLANE ARRAY MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Uncooled Infrared Focal Plane Array Product Life Cycle
- 3.3 Global Uncooled Infrared Focal Plane Array Sales by Manufacturers (2020-2025)
- 3.4 Global Uncooled Infrared Focal Plane Array Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Uncooled Infrared Focal Plane Array Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Uncooled Infrared Focal Plane Array Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Uncooled Infrared Focal Plane Array Market Competitive Situation and Trends

- 3.8.1 Uncooled Infrared Focal Plane Array Market Concentration Rate
- 3.8.2 Global 5 and 10 Largest Uncooled Infrared Focal Plane Array Players Market Share by Revenue
- 3.8.3 Mergers & Acquisitions, Expansion

4 UNCOOLED INFRARED FOCAL PLANE ARRAY INDUSTRY CHAIN ANALYSIS

- 4.1 Uncooled Infrared Focal Plane Array Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF UNCOOLED INFRARED FOCAL PLANE ARRAY MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global Uncooled Infrared Focal Plane Array Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to Uncooled Infrared Focal Plane Array Market
- 5.7 ESG Ratings of Leading Companies

6 UNCOOLED INFRARED FOCAL PLANE ARRAY MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Uncooled Infrared Focal Plane Array Sales Market Share by Type (2020-2025)

6.3 Global Uncooled Infrared Focal Plane Array Market Size by Type (2020-2025)

6.4 Global Uncooled Infrared Focal Plane Array Price by Type (2020-2025)

7 UNCOOLED INFRARED FOCAL PLANE ARRAY MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Uncooled Infrared Focal Plane Array Market Sales by Application (2020-2025)

7.3 Global Uncooled Infrared Focal Plane Array Market Size (M USD) by Application (2020-2025)

7.4 Global Uncooled Infrared Focal Plane Array Sales Growth Rate by Application (2020-2025)

8 UNCOOLED INFRARED FOCAL PLANE ARRAY MARKET SALES BY REGION

8.1 Global Uncooled Infrared Focal Plane Array Sales by Region

8.1.1 Global Uncooled Infrared Focal Plane Array Sales by Region

8.1.2 Global Uncooled Infrared Focal Plane Array Sales Market Share by Region

8.2 Global Uncooled Infrared Focal Plane Array Market Size by Region

8.2.1 Global Uncooled Infrared Focal Plane Array Market Size by Region

8.2.2 Global Uncooled Infrared Focal Plane Array Market Size by Region

8.3 North America

8.3.1 North America Uncooled Infrared Focal Plane Array Sales by Country

8.3.2 North America Uncooled Infrared Focal Plane Array Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Uncooled Infrared Focal Plane Array Sales by Country

8.4.2 Europe Uncooled Infrared Focal Plane Array Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

- 8.5.1 Asia Pacific Uncooled Infrared Focal Plane Array Sales by Region
- 8.5.2 Asia Pacific Uncooled Infrared Focal Plane Array Market Size by Region
- 8.5.3 China Market Overview
- 8.5.4 Japan Market Overview
- 8.5.5 South Korea Market Overview
- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Uncooled Infrared Focal Plane Array Sales by Country
 - 8.6.2 South America Uncooled Infrared Focal Plane Array Market Size by Country
 - 8.6.3 Brazil Market Overview
 - 8.6.4 Argentina Market Overview
 - 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Uncooled Infrared Focal Plane Array Sales by Region
 - 8.7.2 Middle East and Africa Uncooled Infrared Focal Plane Array Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 UNCOOLED INFRARED FOCAL PLANE ARRAY MARKET PRODUCTION BY REGION

- 9.1 Global Production of Uncooled Infrared Focal Plane Array by Region(2020-2025)
- 9.2 Global Uncooled Infrared Focal Plane Array Revenue Market Share by Region (2020-2025)
- 9.3 Global Uncooled Infrared Focal Plane Array Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Uncooled Infrared Focal Plane Array Production
 - 9.4.1 North America Uncooled Infrared Focal Plane Array Production Growth Rate (2020-2025)
 - 9.4.2 North America Uncooled Infrared Focal Plane Array Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Uncooled Infrared Focal Plane Array Production
 - 9.5.1 Europe Uncooled Infrared Focal Plane Array Production Growth Rate (2020-2025)

9.5.2 Europe Uncooled Infrared Focal Plane Array Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Uncooled Infrared Focal Plane Array Production (2020-2025)

9.6.1 Japan Uncooled Infrared Focal Plane Array Production Growth Rate (2020-2025)

9.6.2 Japan Uncooled Infrared Focal Plane Array Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Uncooled Infrared Focal Plane Array Production (2020-2025)

9.7.1 China Uncooled Infrared Focal Plane Array Production Growth Rate (2020-2025)

9.7.2 China Uncooled Infrared Focal Plane Array Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Teledyne FLIR

10.1.1 Teledyne FLIR Basic Information

10.1.2 Teledyne FLIR Uncooled Infrared Focal Plane Array Product Overview

10.1.3 Teledyne FLIR Uncooled Infrared Focal Plane Array Product Market

Performance

10.1.4 Teledyne FLIR Business Overview

10.1.5 Teledyne FLIR SWOT Analysis

10.1.6 Teledyne FLIR Recent Developments

10.2 Leonardo DRS

10.2.1 Leonardo DRS Basic Information

10.2.2 Leonardo DRS Uncooled Infrared Focal Plane Array Product Overview

10.2.3 Leonardo DRS Uncooled Infrared Focal Plane Array Product Market

Performance

10.2.4 Leonardo DRS Business Overview

10.2.5 Leonardo DRS SWOT Analysis

10.2.6 Leonardo DRS Recent Developments

10.3 BAE Systems

10.3.1 BAE Systems Basic Information

10.3.2 BAE Systems Uncooled Infrared Focal Plane Array Product Overview

10.3.3 BAE Systems Uncooled Infrared Focal Plane Array Product Market

Performance

10.3.4 BAE Systems Business Overview

10.3.5 BAE Systems SWOT Analysis

10.3.6 BAE Systems Recent Developments

10.4 Lockheed Martin

10.4.1 Lockheed Martin Basic Information

- 10.4.2 Lockheed Martin Uncooled Infrared Focal Plane Array Product Overview
- 10.4.3 Lockheed Martin Uncooled Infrared Focal Plane Array Product Market Performance
- 10.4.4 Lockheed Martin Business Overview
- 10.4.5 Lockheed Martin Recent Developments
- 10.5 Lynred
 - 10.5.1 Lynred Basic Information
 - 10.5.2 Lynred Uncooled Infrared Focal Plane Array Product Overview
 - 10.5.3 Lynred Uncooled Infrared Focal Plane Array Product Market Performance
 - 10.5.4 Lynred Business Overview
 - 10.5.5 Lynred Recent Developments
- 10.6 VIGO Photonics
 - 10.6.1 VIGO Photonics Basic Information
 - 10.6.2 VIGO Photonics Uncooled Infrared Focal Plane Array Product Overview
 - 10.6.3 VIGO Photonics Uncooled Infrared Focal Plane Array Product Market Performance
 - 10.6.4 VIGO Photonics Business Overview
 - 10.6.5 VIGO Photonics Recent Developments
- 10.7 SCD
 - 10.7.1 SCD Basic Information
 - 10.7.2 SCD Uncooled Infrared Focal Plane Array Product Overview
 - 10.7.3 SCD Uncooled Infrared Focal Plane Array Product Market Performance
 - 10.7.4 SCD Business Overview
 - 10.7.5 SCD Recent Developments
- 10.8 IRnova AB
 - 10.8.1 IRnova AB Basic Information
 - 10.8.2 IRnova AB Uncooled Infrared Focal Plane Array Product Overview
 - 10.8.3 IRnova AB Uncooled Infrared Focal Plane Array Product Market Performance
 - 10.8.4 IRnova AB Business Overview
 - 10.8.5 IRnova AB Recent Developments

11 UNCOOLED INFRARED FOCAL PLANE ARRAY MARKET FORECAST BY REGION

- 11.1 Global Uncooled Infrared Focal Plane Array Market Size Forecast
- 11.2 Global Uncooled Infrared Focal Plane Array Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe Uncooled Infrared Focal Plane Array Market Size Forecast by Country
 - 11.2.3 Asia Pacific Uncooled Infrared Focal Plane Array Market Size Forecast by

Region

11.2.4 South America Uncooled Infrared Focal Plane Array Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Uncooled Infrared Focal Plane Array by Country

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

12.1 Global Uncooled Infrared Focal Plane Array Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Uncooled Infrared Focal Plane Array by Type (2026-2035)

12.1.2 Global Uncooled Infrared Focal Plane Array Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Uncooled Infrared Focal Plane Array by Type (2026-2035)

12.2 Global Uncooled Infrared Focal Plane Array Market Forecast by Application (2026-2035)

12.2.1 Global Uncooled Infrared Focal Plane Array Sales (K Units) Forecast by Application

12.2.2 Global Uncooled Infrared Focal Plane Array Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Uncooled Infrared Focal Plane Array Market Size by Type (M USD)

Table 4. Global Uncooled Infrared Focal Plane Array Market Size by Application

Table 5. Uncooled Infrared Focal Plane Array Market Size Comparison by Region (M USD)

Table 6. Global Uncooled Infrared Focal Plane Array Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global Uncooled Infrared Focal Plane Array Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Uncooled Infrared Focal Plane Array Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Uncooled Infrared Focal Plane Array Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Uncooled Infrared Focal Plane Array as of 2025)

Table 11. Global Market Uncooled Infrared Focal Plane Array Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Uncooled Infrared Focal Plane Array Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Uncooled Infrared Focal Plane Array Market Challenges

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

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

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

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

Table 26. Global Uncooled Infrared Focal Plane Array Sales by Type (K Units)

Table 27. Global Uncooled Infrared Focal Plane Array Market Size by Type (M USD)

Table 28. Global Uncooled Infrared Focal Plane Array Sales (K Units) by Type (2020-2025)

Table 29. Global Uncooled Infrared Focal Plane Array Sales Market Share by Type (2020-2025)

Table 30. Global Uncooled Infrared Focal Plane Array Market Size (M USD) by Type (2020-2025)

Table 31. Global Uncooled Infrared Focal Plane Array Market Share by Type (2020-2025)

Table 32. Global Uncooled Infrared Focal Plane Array Price (USD/Unit) by Type (2020-2025)

Table 33. Global Uncooled Infrared Focal Plane Array Sales (K Units) by Application

Table 34. Global Uncooled Infrared Focal Plane Array Market Size by Application

Table 35. Global Uncooled Infrared Focal Plane Array Sales by Application (2020-2025) & (K Units)

Table 36. Global Uncooled Infrared Focal Plane Array Sales Market Share by Application (2020-2025)

Table 37. Global Uncooled Infrared Focal Plane Array Market Size by Application (2020-2025) & (M USD)

Table 38. Global Uncooled Infrared Focal Plane Array Market Share by Application (2020-2025)

Table 39. Global Uncooled Infrared Focal Plane Array Sales Growth Rate by Application (2020-2025)

Table 40. Global Uncooled Infrared Focal Plane Array Sales by Region (2020-2025) & (K Units)

Table 41. Global Uncooled Infrared Focal Plane Array Sales Market Share by Region (2020-2025)

Table 42. Global Uncooled Infrared Focal Plane Array Market Size by Region (2020-2025) & (M USD)

Table 43. Global Uncooled Infrared Focal Plane Array Market Size by Region (2020-2025)

Table 44. North America Uncooled Infrared Focal Plane Array Sales by Country (2020-2025) & (K Units)

Table 45. North America Uncooled Infrared Focal Plane Array Market Size by Country (2020-2025) & (M USD)

Table 46. Europe Uncooled Infrared Focal Plane Array Sales by Country (2020-2025) & (K Units)

Table 47. Europe Uncooled Infrared Focal Plane Array Market Size by Country (2020-2025) & (M USD)

- Table 48. Asia Pacific Uncooled Infrared Focal Plane Array Sales by Region (2020-2025) & (K Units)
- Table 49. Asia Pacific Uncooled Infrared Focal Plane Array Market Size by Region (2020-2025) & (M USD)
- Table 50. South America Uncooled Infrared Focal Plane Array Sales by Country (2020-2025) & (K Units)
- Table 51. South America Uncooled Infrared Focal Plane Array Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa Uncooled Infrared Focal Plane Array Sales by Region (2020-2025) & (K Units)
- Table 53. Middle East and Africa Uncooled Infrared Focal Plane Array Market Size by Region (2020-2025) & (M USD)
- Table 54. Global Uncooled Infrared Focal Plane Array Production (K Units) by Region(2020-2025)
- Table 55. Global Uncooled Infrared Focal Plane Array Revenue (US\$ Million) by Region (2020-2025)
- Table 56. Global Uncooled Infrared Focal Plane Array Revenue Market Share by Region (2020-2025)
- Table 57. Global Uncooled Infrared Focal Plane Array Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 58. North America Uncooled Infrared Focal Plane Array Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 59. Europe Uncooled Infrared Focal Plane Array Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 60. Japan Uncooled Infrared Focal Plane Array Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 61. China Uncooled Infrared Focal Plane Array Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 62. Teledyne FLIR Basic Information
- Table 63. Teledyne FLIR Uncooled Infrared Focal Plane Array Product Overview
- Table 64. Teledyne FLIR Uncooled Infrared Focal Plane Array Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 65. Teledyne FLIR Business Overview
- Table 66. Teledyne FLIR SWOT Analysis
- Table 67. Teledyne FLIR Recent Developments
- Table 68. Leonardo DRS Basic Information
- Table 69. Leonardo DRS Uncooled Infrared Focal Plane Array Product Overview
- Table 70. Leonardo DRS Uncooled Infrared Focal Plane Array Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

- Table 71. Leonardo DRS Business Overview
- Table 72. Leonardo DRS SWOT Analysis
- Table 73. Leonardo DRS Recent Developments
- Table 74. BAE Systems Basic Information
- Table 75. BAE Systems Uncooled Infrared Focal Plane Array Product Overview
- Table 76. BAE Systems Uncooled Infrared Focal Plane Array Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 77. BAE Systems Business Overview
- Table 78. BAE Systems SWOT Analysis
- Table 79. BAE Systems Recent Developments
- Table 80. Lockheed Martin Basic Information
- Table 81. Lockheed Martin Uncooled Infrared Focal Plane Array Product Overview
- Table 82. Lockheed Martin Uncooled Infrared Focal Plane Array Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 83. Lockheed Martin Business Overview
- Table 84. Lockheed Martin Recent Developments
- Table 85. Lynred Basic Information
- Table 86. Lynred Uncooled Infrared Focal Plane Array Product Overview
- Table 87. Lynred Uncooled Infrared Focal Plane Array Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. Lynred Business Overview
- Table 89. Lynred Recent Developments
- Table 90. VIGO Photonics Basic Information
- Table 91. VIGO Photonics Uncooled Infrared Focal Plane Array Product Overview
- Table 92. VIGO Photonics Uncooled Infrared Focal Plane Array Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. VIGO Photonics Business Overview
- Table 94. VIGO Photonics Recent Developments
- Table 95. SCD Basic Information
- Table 96. SCD Uncooled Infrared Focal Plane Array Product Overview
- Table 97. SCD Uncooled Infrared Focal Plane Array Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 98. SCD Business Overview
- Table 99. SCD Recent Developments
- Table 100. IRnova AB Basic Information
- Table 101. IRnova AB Uncooled Infrared Focal Plane Array Product Overview
- Table 102. IRnova AB Uncooled Infrared Focal Plane Array Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 103. IRnova AB Business Overview

Table 104. IRnova AB Recent Developments

Table 105. Global Uncooled Infrared Focal Plane Array Sales Forecast by Region (2026-2035) & (K Units)

Table 106. Global Uncooled Infrared Focal Plane Array Market Size Forecast by Region (2026-2035) & (M USD)

Table 107. North America Uncooled Infrared Focal Plane Array Sales Forecast by Country (2026-2035) & (K Units)

Table 108. North America Uncooled Infrared Focal Plane Array Market Size Forecast by Country (2026-2035) & (M USD)

Table 109. Europe Uncooled Infrared Focal Plane Array Sales Forecast by Country (2026-2035) & (K Units)

Table 110. Europe Uncooled Infrared Focal Plane Array Market Size Forecast by Country (2026-2035) & (M USD)

Table 111. Asia Pacific Uncooled Infrared Focal Plane Array Sales Forecast by Region (2026-2035) & (K Units)

Table 112. Asia Pacific Uncooled Infrared Focal Plane Array Market Size Forecast by Region (2026-2035) & (M USD)

Table 113. South America Uncooled Infrared Focal Plane Array Sales Forecast by Country (2026-2035) & (K Units)

Table 114. South America Uncooled Infrared Focal Plane Array Market Size Forecast by Country (2026-2035) & (M USD)

Table 115. Middle East and Africa Uncooled Infrared Focal Plane Array Sales Forecast by Country (2026-2035) & (Units)

Table 116. Middle East and Africa Uncooled Infrared Focal Plane Array Market Size Forecast by Country (2026-2035) & (M USD)

Table 117. Global Uncooled Infrared Focal Plane Array Sales Forecast by Type (2026-2035) & (K Units)

Table 118. Global Uncooled Infrared Focal Plane Array Market Size Forecast by Type (2026-2035) & (M USD)

Table 119. Global Uncooled Infrared Focal Plane Array Price Forecast by Type (2026-2035) & (USD/Unit)

Table 120. Global Uncooled Infrared Focal Plane Array Sales (K Units) Forecast by Application (2026-2035)

Table 121. Global Uncooled Infrared Focal Plane Array Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Uncooled Infrared Focal Plane Array
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Uncooled Infrared Focal Plane Array Market Size (M USD), 2025-2035
- Figure 5. Global Uncooled Infrared Focal Plane Array Market Size (M USD) (2020-2035)
- Figure 6. Global Uncooled Infrared Focal Plane Array Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Uncooled Infrared Focal Plane Array Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Uncooled Infrared Focal Plane Array Product Life Cycle
- Figure 13. Uncooled Infrared Focal Plane Array Sales Share by Manufacturers in 2025
- Figure 14. Global Uncooled Infrared Focal Plane Array Revenue Share by Manufacturers in 2025
- Figure 15. Uncooled Infrared Focal Plane Array Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Uncooled Infrared Focal Plane Array Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Uncooled Infrared Focal Plane Array Revenue in 2025
- Figure 18. Industry Chain Map of Uncooled Infrared Focal Plane Array
- Figure 19. Global Uncooled Infrared Focal Plane Array Market PEST Analysis
- Figure 20. Global Uncooled Infrared Focal Plane Array Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Uncooled Infrared Focal Plane Array Market Share by Type
- Figure 27. Sales Market Share of Uncooled Infrared Focal Plane Array by Type (2020-2025)
- Figure 28. Sales Market Share of Uncooled Infrared Focal Plane Array by Type in 2025

Figure 29. Market Share of Uncooled Infrared Focal Plane Array by Type (2020-2025)

Figure 30. Market Share of Uncooled Infrared Focal Plane Array by Type in 2025

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

Figure 32. Global Uncooled Infrared Focal Plane Array Market Share by Application

Figure 33. Global Uncooled Infrared Focal Plane Array Sales Market Share by Application (2020-2025)

Figure 34. Global Uncooled Infrared Focal Plane Array Sales Market Share by Application in 2025

Figure 35. Global Uncooled Infrared Focal Plane Array Market Share by Application (2020-2025)

Figure 36. Global Uncooled Infrared Focal Plane Array Market Share by Application in 2025

Figure 37. Global Uncooled Infrared Focal Plane Array Sales Growth Rate by Application (2020-2025)

Figure 38. Global Uncooled Infrared Focal Plane Array Sales Market Share by Region (2020-2025)

Figure 39. Global Uncooled Infrared Focal Plane Array Market Size by Region (2020-2025)

Figure 40. North America Uncooled Infrared Focal Plane Array Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Uncooled Infrared Focal Plane Array Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Uncooled Infrared Focal Plane Array Sales Market Share by Country in 2024

Figure 43. North America Uncooled Infrared Focal Plane Array Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Uncooled Infrared Focal Plane Array Market Size by Country in 2024

Figure 45. U.S. Uncooled Infrared Focal Plane Array Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Uncooled Infrared Focal Plane Array Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Uncooled Infrared Focal Plane Array Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Uncooled Infrared Focal Plane Array Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Uncooled Infrared Focal Plane Array Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Uncooled Infrared Focal Plane Array Market Size (Units) and Growth

Rate (2020-2025)

Figure 51. Europe Uncooled Infrared Focal Plane Array Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Uncooled Infrared Focal Plane Array Sales Market Share by Country in 2024

Figure 53. Europe Uncooled Infrared Focal Plane Array Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Uncooled Infrared Focal Plane Array Market Size by Country in 2024

Figure 55. Germany Uncooled Infrared Focal Plane Array Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Uncooled Infrared Focal Plane Array Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Uncooled Infrared Focal Plane Array Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Uncooled Infrared Focal Plane Array Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Uncooled Infrared Focal Plane Array Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Uncooled Infrared Focal Plane Array Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Uncooled Infrared Focal Plane Array Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Uncooled Infrared Focal Plane Array Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Uncooled Infrared Focal Plane Array Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Uncooled Infrared Focal Plane Array Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Uncooled Infrared Focal Plane Array Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Uncooled Infrared Focal Plane Array Sales Market Share by Region in 2024

Figure 67. Asia Pacific Uncooled Infrared Focal Plane Array Market Size by Region in 2024

Figure 68. China Uncooled Infrared Focal Plane Array Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Uncooled Infrared Focal Plane Array Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Uncooled Infrared Focal Plane Array Sales and Growth Rate

(2020-2025) & (K Units)

Figure 71. Japan Uncooled Infrared Focal Plane Array Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Uncooled Infrared Focal Plane Array Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Uncooled Infrared Focal Plane Array Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Uncooled Infrared Focal Plane Array Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Uncooled Infrared Focal Plane Array Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Uncooled Infrared Focal Plane Array Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Uncooled Infrared Focal Plane Array Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Uncooled Infrared Focal Plane Array Sales and Growth Rate (K Units)

Figure 79. South America Uncooled Infrared Focal Plane Array Sales Market Share by Country in 2024

Figure 80. South America Uncooled Infrared Focal Plane Array Market Size and Growth Rate (M USD)

Figure 81. South America Uncooled Infrared Focal Plane Array Market Size by Country in 2024

Figure 82. Brazil Uncooled Infrared Focal Plane Array Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Uncooled Infrared Focal Plane Array Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Uncooled Infrared Focal Plane Array Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Uncooled Infrared Focal Plane Array Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Uncooled Infrared Focal Plane Array Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Uncooled Infrared Focal Plane Array Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Uncooled Infrared Focal Plane Array Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Uncooled Infrared Focal Plane Array Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Uncooled Infrared Focal Plane Array Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Uncooled Infrared Focal Plane Array Market Size by Region in 2024

Figure 92. Saudi Arabia Uncooled Infrared Focal Plane Array Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Uncooled Infrared Focal Plane Array Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Uncooled Infrared Focal Plane Array Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Uncooled Infrared Focal Plane Array Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Uncooled Infrared Focal Plane Array Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Uncooled Infrared Focal Plane Array Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Uncooled Infrared Focal Plane Array Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Uncooled Infrared Focal Plane Array Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Uncooled Infrared Focal Plane Array Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Uncooled Infrared Focal Plane Array Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Uncooled Infrared Focal Plane Array Production Market Share by Region (2020-2025)

Figure 103. North America Uncooled Infrared Focal Plane Array Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Uncooled Infrared Focal Plane Array Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Uncooled Infrared Focal Plane Array Production (K Units) Growth Rate (2020-2025)

Figure 106. China Uncooled Infrared Focal Plane Array Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Uncooled Infrared Focal Plane Array Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Uncooled Infrared Focal Plane Array Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Uncooled Infrared Focal Plane Array Sales Market Share Forecast

by Type (2026-2035)

Figure 110. Global Uncooled Infrared Focal Plane Array Market Share Forecast by Type (2026-2035)

Figure 111. Global Uncooled Infrared Focal Plane Array Sales Forecast by Application (2026-2035)

Figure 112. Global Uncooled Infrared Focal Plane Array Market Share Forecast by Application (2026-2035)

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