

Global Uncooled Infrared Thermal Camera Modules Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Uncooled Infrared Thermal Camera Modules market size was valued at US\$ 165 million in 2025 and is forecast to a readjusted size of US\$ 294 million by 2032 with a CAGR of 6.2% during review period.

An Uncooled Infrared Thermal Camera Module is a compact imaging unit that detects infrared radiation (heat) without requiring cryogenic cooling. It typically consists of an uncooled infrared detector (such as a microbolometer), optics, signal-processing electronics, and an image-output interface. These modules convert temperature differences into visible thermal images and are widely used in security monitoring, industrial inspection, predictive maintenance, firefighting, automotive ADAS, smart home devices, medical screening, and outdoor consumer products. Their advantages include low cost, small size, low power consumption, and fast startup, making them suitable for large-scale commercial integration into cameras, drones, smartphones, and IoT devices. In 2025, global Uncooled Infrared Thermal Camera Modules production reached approximately 180 k units, with an average global market price of around US\$ 890 per unit. The production capacity for Uncooled Infrared Thermal Camera Modules in 2025 was approximately 190 k units. The typical gross profit margin for Uncooled Infrared Thermal Imaging Modules between 30% and 40%.

Uncooled infrared thermal camera modules are widely used in downstream applications such as security and surveillance, industrial inspection, building diagnostics, automotive safety, and portable thermal imaging devices. They enable non-contact temperature measurement and thermal visualization for applications including night-time monitoring, fault detection in electrical and mechanical systems, energy efficiency analysis, driver

assistance systems, and handheld or smartphone-integrated thermal cameras.

This report is a detailed and comprehensive analysis for global Uncooled Infrared Thermal Camera Modules market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Uncooled Infrared Thermal Camera Modules market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Uncooled Infrared Thermal Camera Modules market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Uncooled Infrared Thermal Camera Modules market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Uncooled Infrared Thermal Camera Modules market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Uncooled Infrared Thermal Camera Modules
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Uncooled Infrared Thermal Camera Modules market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Teledyne FLIR,

Leonardo DRS, Lynred, L3Harris, SEEK Thermal, BAE Systems, Raytheon, NEC, SCD, VIGO Photonics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Uncooled Infrared Thermal Camera Modules market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

VOx

?-Si

Market segment by Pixel Pitch

8?m/6?m

10?m

12?m

17?m

Others

Market segment by Application

Civilian

Government

Military

Major players covered

Teledyne FLIR

Leonardo DRS

Lynred

L3Harris

SEEK Thermal

BAE Systems

Raytheon

NEC

SCD

VIGO Photonics

Wuhan GuideInfrared

Raytron Technology

Zhe JIANG Dali Technology

Northern Guangwei Technology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Uncooled Infrared Thermal Camera Modules product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Uncooled Infrared Thermal Camera Modules, with price, sales quantity, revenue, and global market share of Uncooled Infrared Thermal Camera Modules from 2021 to 2026.

Chapter 3, the Uncooled Infrared Thermal Camera Modules competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Uncooled Infrared Thermal Camera Modules breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Uncooled Infrared Thermal Camera Modules market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Uncooled Infrared Thermal Camera Modules.

Chapter 14 and 15, to describe Uncooled Infrared Thermal Camera Modules sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Uncooled Infrared Thermal Camera Modules Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 VOx

1.3.3 ?-Si

1.4 Market Analysis by Pixel Pitch

1.4.1 Overview: Global Uncooled Infrared Thermal Camera Modules Consumption Value by Pixel Pitch: 2021 Versus 2025 Versus 2032

1.4.2 8?m/6?m

1.4.3 10?m

1.4.4 12?m

1.4.5 17?m

1.4.6 Others

1.5 Market Analysis by Application

1.5.1 Overview: Global Uncooled Infrared Thermal Camera Modules Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.5.2 Civilian

1.5.3 Government

1.5.4 Military

1.6 Global Uncooled Infrared Thermal Camera Modules Market Size & Forecast

1.6.1 Global Uncooled Infrared Thermal Camera Modules Consumption Value (2021 & 2025 & 2032)

1.6.2 Global Uncooled Infrared Thermal Camera Modules Sales Quantity (2021-2032)

1.6.3 Global Uncooled Infrared Thermal Camera Modules Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Teledyne FLIR

2.1.1 Teledyne FLIR Details

2.1.2 Teledyne FLIR Major Business

2.1.3 Teledyne FLIR Uncooled Infrared Thermal Camera Modules Product and Services

2.1.4 Teledyne FLIR Uncooled Infrared Thermal Camera Modules Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Teledyne FLIR Recent Developments/Updates

2.2 Leonardo DRS

2.2.1 Leonardo DRS Details

2.2.2 Leonardo DRS Major Business

2.2.3 Leonardo DRS Uncooled Infrared Thermal Camera Modules Product and Services

2.2.4 Leonardo DRS Uncooled Infrared Thermal Camera Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Leonardo DRS Recent Developments/Updates

2.3 Lynred

2.3.1 Lynred Details

2.3.2 Lynred Major Business

2.3.3 Lynred Uncooled Infrared Thermal Camera Modules Product and Services

2.3.4 Lynred Uncooled Infrared Thermal Camera Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Lynred Recent Developments/Updates

2.4 L3Harris

2.4.1 L3Harris Details

2.4.2 L3Harris Major Business

2.4.3 L3Harris Uncooled Infrared Thermal Camera Modules Product and Services

2.4.4 L3Harris Uncooled Infrared Thermal Camera Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 L3Harris Recent Developments/Updates

2.5 SEEK Thermal

2.5.1 SEEK Thermal Details

2.5.2 SEEK Thermal Major Business

2.5.3 SEEK Thermal Uncooled Infrared Thermal Camera Modules Product and Services

2.5.4 SEEK Thermal Uncooled Infrared Thermal Camera Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 SEEK Thermal Recent Developments/Updates

2.6 BAE Systems

2.6.1 BAE Systems Details

2.6.2 BAE Systems Major Business

2.6.3 BAE Systems Uncooled Infrared Thermal Camera Modules Product and Services

2.6.4 BAE Systems Uncooled Infrared Thermal Camera Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

- 2.6.5 BAE Systems Recent Developments/Updates
- 2.7 Raytheon
 - 2.7.1 Raytheon Details
 - 2.7.2 Raytheon Major Business
 - 2.7.3 Raytheon Uncooled Infrared Thermal Camera Modules Product and Services
 - 2.7.4 Raytheon Uncooled Infrared Thermal Camera Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Raytheon Recent Developments/Updates
- 2.8 NEC
 - 2.8.1 NEC Details
 - 2.8.2 NEC Major Business
 - 2.8.3 NEC Uncooled Infrared Thermal Camera Modules Product and Services
 - 2.8.4 NEC Uncooled Infrared Thermal Camera Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 NEC Recent Developments/Updates
- 2.9 SCD
 - 2.9.1 SCD Details
 - 2.9.2 SCD Major Business
 - 2.9.3 SCD Uncooled Infrared Thermal Camera Modules Product and Services
 - 2.9.4 SCD Uncooled Infrared Thermal Camera Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 SCD Recent Developments/Updates
- 2.10 VIGO Photonics
 - 2.10.1 VIGO Photonics Details
 - 2.10.2 VIGO Photonics Major Business
 - 2.10.3 VIGO Photonics Uncooled Infrared Thermal Camera Modules Product and Services
 - 2.10.4 VIGO Photonics Uncooled Infrared Thermal Camera Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 VIGO Photonics Recent Developments/Updates
- 2.11 Wuhan GuideInfrared
 - 2.11.1 Wuhan GuideInfrared Details
 - 2.11.2 Wuhan GuideInfrared Major Business
 - 2.11.3 Wuhan GuideInfrared Uncooled Infrared Thermal Camera Modules Product and Services
 - 2.11.4 Wuhan GuideInfrared Uncooled Infrared Thermal Camera Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.11.5 Wuhan GuideInfrared Recent Developments/Updates
- 2.12 Raytron Technology

- 2.12.1 Raytron Technology Details
- 2.12.2 Raytron Technology Major Business
- 2.12.3 Raytron Technology Uncooled Infrared Thermal Camera Modules Product and Services
- 2.12.4 Raytron Technology Uncooled Infrared Thermal Camera Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.12.5 Raytron Technology Recent Developments/Updates
- 2.13 Zhe JIANG Dali Technology
 - 2.13.1 Zhe JIANG Dali Technology Details
 - 2.13.2 Zhe JIANG Dali Technology Major Business
 - 2.13.3 Zhe JIANG Dali Technology Uncooled Infrared Thermal Camera Modules Product and Services
 - 2.13.4 Zhe JIANG Dali Technology Uncooled Infrared Thermal Camera Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.13.5 Zhe JIANG Dali Technology Recent Developments/Updates
- 2.14 Northern Guangwei Technology
 - 2.14.1 Northern Guangwei Technology Details
 - 2.14.2 Northern Guangwei Technology Major Business
 - 2.14.3 Northern Guangwei Technology Uncooled Infrared Thermal Camera Modules Product and Services
 - 2.14.4 Northern Guangwei Technology Uncooled Infrared Thermal Camera Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.14.5 Northern Guangwei Technology Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: UNCOOLED INFRARED THERMAL CAMERA MODULES BY MANUFACTURER

- 3.1 Global Uncooled Infrared Thermal Camera Modules Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Uncooled Infrared Thermal Camera Modules Revenue by Manufacturer (2021-2026)
- 3.3 Global Uncooled Infrared Thermal Camera Modules Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Uncooled Infrared Thermal Camera Modules by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Uncooled Infrared Thermal Camera Modules Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Uncooled Infrared Thermal Camera Modules Manufacturer Market Share

in 2025

3.5 Uncooled Infrared Thermal Camera Modules Market: Overall Company Footprint Analysis

3.5.1 Uncooled Infrared Thermal Camera Modules Market: Region Footprint

3.5.2 Uncooled Infrared Thermal Camera Modules Market: Company Product Type Footprint

3.5.3 Uncooled Infrared Thermal Camera Modules Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Uncooled Infrared Thermal Camera Modules Market Size by Region

4.1.1 Global Uncooled Infrared Thermal Camera Modules Sales Quantity by Region (2021-2032)

4.1.2 Global Uncooled Infrared Thermal Camera Modules Consumption Value by Region (2021-2032)

4.1.3 Global Uncooled Infrared Thermal Camera Modules Average Price by Region (2021-2032)

4.2 North America Uncooled Infrared Thermal Camera Modules Consumption Value (2021-2032)

4.3 Europe Uncooled Infrared Thermal Camera Modules Consumption Value (2021-2032)

4.4 Asia-Pacific Uncooled Infrared Thermal Camera Modules Consumption Value (2021-2032)

4.5 South America Uncooled Infrared Thermal Camera Modules Consumption Value (2021-2032)

4.6 Middle East & Africa Uncooled Infrared Thermal Camera Modules Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Uncooled Infrared Thermal Camera Modules Sales Quantity by Type (2021-2032)

5.2 Global Uncooled Infrared Thermal Camera Modules Consumption Value by Type (2021-2032)

5.3 Global Uncooled Infrared Thermal Camera Modules Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Uncooled Infrared Thermal Camera Modules Sales Quantity by Application (2021-2032)

6.2 Global Uncooled Infrared Thermal Camera Modules Consumption Value by Application (2021-2032)

6.3 Global Uncooled Infrared Thermal Camera Modules Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Uncooled Infrared Thermal Camera Modules Sales Quantity by Type (2021-2032)

7.2 North America Uncooled Infrared Thermal Camera Modules Sales Quantity by Application (2021-2032)

7.3 North America Uncooled Infrared Thermal Camera Modules Market Size by Country

7.3.1 North America Uncooled Infrared Thermal Camera Modules Sales Quantity by Country (2021-2032)

7.3.2 North America Uncooled Infrared Thermal Camera Modules Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Uncooled Infrared Thermal Camera Modules Sales Quantity by Type (2021-2032)

8.2 Europe Uncooled Infrared Thermal Camera Modules Sales Quantity by Application (2021-2032)

8.3 Europe Uncooled Infrared Thermal Camera Modules Market Size by Country

8.3.1 Europe Uncooled Infrared Thermal Camera Modules Sales Quantity by Country (2021-2032)

8.3.2 Europe Uncooled Infrared Thermal Camera Modules Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Uncooled Infrared Thermal Camera Modules Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Uncooled Infrared Thermal Camera Modules Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Uncooled Infrared Thermal Camera Modules Market Size by Region

9.3.1 Asia-Pacific Uncooled Infrared Thermal Camera Modules Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Uncooled Infrared Thermal Camera Modules Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Uncooled Infrared Thermal Camera Modules Sales Quantity by Type (2021-2032)

10.2 South America Uncooled Infrared Thermal Camera Modules Sales Quantity by Application (2021-2032)

10.3 South America Uncooled Infrared Thermal Camera Modules Market Size by Country

10.3.1 South America Uncooled Infrared Thermal Camera Modules Sales Quantity by Country (2021-2032)

10.3.2 South America Uncooled Infrared Thermal Camera Modules Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Uncooled Infrared Thermal Camera Modules Sales Quantity

by Type (2021-2032)

11.2 Middle East & Africa Uncooled Infrared Thermal Camera Modules Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Uncooled Infrared Thermal Camera Modules Market Size by Country

11.3.1 Middle East & Africa Uncooled Infrared Thermal Camera Modules Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Uncooled Infrared Thermal Camera Modules Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Uncooled Infrared Thermal Camera Modules Market Drivers

12.2 Uncooled Infrared Thermal Camera Modules Market Restraints

12.3 Uncooled Infrared Thermal Camera Modules Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Uncooled Infrared Thermal Camera Modules and Key Manufacturers

13.2 Manufacturing Costs Percentage of Uncooled Infrared Thermal Camera Modules

13.3 Uncooled Infrared Thermal Camera Modules Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Uncooled Infrared Thermal Camera Modules Typical Distributors

14.3 Uncooled Infrared Thermal Camera Modules Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Uncooled Infrared Thermal Camera Modules Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Uncooled Infrared Thermal Camera Modules Consumption Value by Pixel Pitch, (USD Million), 2021 & 2025 & 2032

Table 3. Global Uncooled Infrared Thermal Camera Modules Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 4. Teledyne FLIR Basic Information, Manufacturing Base and Competitors

Table 5. Teledyne FLIR Major Business

Table 6. Teledyne FLIR Uncooled Infrared Thermal Camera Modules Product and Services

Table 7. Teledyne FLIR Uncooled Infrared Thermal Camera Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 8. Teledyne FLIR Recent Developments/Updates

Table 9. Leonardo DRS Basic Information, Manufacturing Base and Competitors

Table 10. Leonardo DRS Major Business

Table 11. Leonardo DRS Uncooled Infrared Thermal Camera Modules Product and Services

Table 12. Leonardo DRS Uncooled Infrared Thermal Camera Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 13. Leonardo DRS Recent Developments/Updates

Table 14. Lynred Basic Information, Manufacturing Base and Competitors

Table 15. Lynred Major Business

Table 16. Lynred Uncooled Infrared Thermal Camera Modules Product and Services

Table 17. Lynred Uncooled Infrared Thermal Camera Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 18. Lynred Recent Developments/Updates

Table 19. L3Harris Basic Information, Manufacturing Base and Competitors

Table 20. L3Harris Major Business

Table 21. L3Harris Uncooled Infrared Thermal Camera Modules Product and Services

Table 22. L3Harris Uncooled Infrared Thermal Camera Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 23. L3Harris Recent Developments/Updates

Table 24. SEEK Thermal Basic Information, Manufacturing Base and Competitors

Table 25. SEEK Thermal Major Business

Table 26. SEEK Thermal Uncooled Infrared Thermal Camera Modules Product and Services

Table 27. SEEK Thermal Uncooled Infrared Thermal Camera Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 28. SEEK Thermal Recent Developments/Updates

Table 29. BAE Systems Basic Information, Manufacturing Base and Competitors

Table 30. BAE Systems Major Business

Table 31. BAE Systems Uncooled Infrared Thermal Camera Modules Product and Services

Table 32. BAE Systems Uncooled Infrared Thermal Camera Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 33. BAE Systems Recent Developments/Updates

Table 34. Raytheon Basic Information, Manufacturing Base and Competitors

Table 35. Raytheon Major Business

Table 36. Raytheon Uncooled Infrared Thermal Camera Modules Product and Services

Table 37. Raytheon Uncooled Infrared Thermal Camera Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 38. Raytheon Recent Developments/Updates

Table 39. NEC Basic Information, Manufacturing Base and Competitors

Table 40. NEC Major Business

Table 41. NEC Uncooled Infrared Thermal Camera Modules Product and Services

Table 42. NEC Uncooled Infrared Thermal Camera Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 43. NEC Recent Developments/Updates

Table 44. SCD Basic Information, Manufacturing Base and Competitors

Table 45. SCD Major Business

Table 46. SCD Uncooled Infrared Thermal Camera Modules Product and Services

Table 47. SCD Uncooled Infrared Thermal Camera Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 48. SCD Recent Developments/Updates

Table 49. VIGO Photonics Basic Information, Manufacturing Base and Competitors

- Table 50. VIGO Photonics Major Business
- Table 51. VIGO Photonics Uncooled Infrared Thermal Camera Modules Product and Services
- Table 52. VIGO Photonics Uncooled Infrared Thermal Camera Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 53. VIGO Photonics Recent Developments/Updates
- Table 54. Wuhan GuideInfrared Basic Information, Manufacturing Base and Competitors
- Table 55. Wuhan GuideInfrared Major Business
- Table 56. Wuhan GuideInfrared Uncooled Infrared Thermal Camera Modules Product and Services
- Table 57. Wuhan GuideInfrared Uncooled Infrared Thermal Camera Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 58. Wuhan GuideInfrared Recent Developments/Updates
- Table 59. Raytron Technology Basic Information, Manufacturing Base and Competitors
- Table 60. Raytron Technology Major Business
- Table 61. Raytron Technology Uncooled Infrared Thermal Camera Modules Product and Services
- Table 62. Raytron Technology Uncooled Infrared Thermal Camera Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 63. Raytron Technology Recent Developments/Updates
- Table 64. Zhe JIANG Dali Technology Basic Information, Manufacturing Base and Competitors
- Table 65. Zhe JIANG Dali Technology Major Business
- Table 66. Zhe JIANG Dali Technology Uncooled Infrared Thermal Camera Modules Product and Services
- Table 67. Zhe JIANG Dali Technology Uncooled Infrared Thermal Camera Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 68. Zhe JIANG Dali Technology Recent Developments/Updates
- Table 69. Northern Guangwei Technology Basic Information, Manufacturing Base and Competitors
- Table 70. Northern Guangwei Technology Major Business
- Table 71. Northern Guangwei Technology Uncooled Infrared Thermal Camera Modules Product and Services
- Table 72. Northern Guangwei Technology Uncooled Infrared Thermal Camera Modules

Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 73. Northern Guangwei Technology Recent Developments/Updates

Table 74. Global Uncooled Infrared Thermal Camera Modules Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 75. Global Uncooled Infrared Thermal Camera Modules Revenue by Manufacturer (2021-2026) & (USD Million)

Table 76. Global Uncooled Infrared Thermal Camera Modules Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 77. Market Position of Manufacturers in Uncooled Infrared Thermal Camera Modules, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 78. Head Office and Uncooled Infrared Thermal Camera Modules Production Site of Key Manufacturer

Table 79. Uncooled Infrared Thermal Camera Modules Market: Company Product Type Footprint

Table 80. Uncooled Infrared Thermal Camera Modules Market: Company Product Application Footprint

Table 81. Uncooled Infrared Thermal Camera Modules New Market Entrants and Barriers to Market Entry

Table 82. Uncooled Infrared Thermal Camera Modules Mergers, Acquisition, Agreements, and Collaborations

Table 83. Global Uncooled Infrared Thermal Camera Modules Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 84. Global Uncooled Infrared Thermal Camera Modules Sales Quantity by Region (2021-2026) & (K Units)

Table 85. Global Uncooled Infrared Thermal Camera Modules Sales Quantity by Region (2027-2032) & (K Units)

Table 86. Global Uncooled Infrared Thermal Camera Modules Consumption Value by Region (2021-2026) & (USD Million)

Table 87. Global Uncooled Infrared Thermal Camera Modules Consumption Value by Region (2027-2032) & (USD Million)

Table 88. Global Uncooled Infrared Thermal Camera Modules Average Price by Region (2021-2026) & (US\$/Unit)

Table 89. Global Uncooled Infrared Thermal Camera Modules Average Price by Region (2027-2032) & (US\$/Unit)

Table 90. Global Uncooled Infrared Thermal Camera Modules Sales Quantity by Type (2021-2026) & (K Units)

Table 91. Global Uncooled Infrared Thermal Camera Modules Sales Quantity by Type (2027-2032) & (K Units)

Table 92. Global Uncooled Infrared Thermal Camera Modules Consumption Value by Type (2021-2026) & (USD Million)

Table 93. Global Uncooled Infrared Thermal Camera Modules Consumption Value by Type (2027-2032) & (USD Million)

Table 94. Global Uncooled Infrared Thermal Camera Modules Average Price by Type (2021-2026) & (US\$/Unit)

Table 95. Global Uncooled Infrared Thermal Camera Modules Average Price by Type (2027-2032) & (US\$/Unit)

Table 96. Global Uncooled Infrared Thermal Camera Modules Sales Quantity by Application (2021-2026) & (K Units)

Table 97. Global Uncooled Infrared Thermal Camera Modules Sales Quantity by Application (2027-2032) & (K Units)

Table 98. Global Uncooled Infrared Thermal Camera Modules Consumption Value by Application (2021-2026) & (USD Million)

Table 99. Global Uncooled Infrared Thermal Camera Modules Consumption Value by Application (2027-2032) & (USD Million)

Table 100. Global Uncooled Infrared Thermal Camera Modules Average Price by Application (2021-2026) & (US\$/Unit)

Table 101. Global Uncooled Infrared Thermal Camera Modules Average Price by Application (2027-2032) & (US\$/Unit)

Table 102. North America Uncooled Infrared Thermal Camera Modules Sales Quantity by Type (2021-2026) & (K Units)

Table 103. North America Uncooled Infrared Thermal Camera Modules Sales Quantity by Type (2027-2032) & (K Units)

Table 104. North America Uncooled Infrared Thermal Camera Modules Sales Quantity by Application (2021-2026) & (K Units)

Table 105. North America Uncooled Infrared Thermal Camera Modules Sales Quantity by Application (2027-2032) & (K Units)

Table 106. North America Uncooled Infrared Thermal Camera Modules Sales Quantity by Country (2021-2026) & (K Units)

Table 107. North America Uncooled Infrared Thermal Camera Modules Sales Quantity by Country (2027-2032) & (K Units)

Table 108. North America Uncooled Infrared Thermal Camera Modules Consumption Value by Country (2021-2026) & (USD Million)

Table 109. North America Uncooled Infrared Thermal Camera Modules Consumption Value by Country (2027-2032) & (USD Million)

Table 110. Europe Uncooled Infrared Thermal Camera Modules Sales Quantity by Type (2021-2026) & (K Units)

Table 111. Europe Uncooled Infrared Thermal Camera Modules Sales Quantity by Type

(2027-2032) & (K Units)

Table 112. Europe Uncooled Infrared Thermal Camera Modules Sales Quantity by Application (2021-2026) & (K Units)

Table 113. Europe Uncooled Infrared Thermal Camera Modules Sales Quantity by Application (2027-2032) & (K Units)

Table 114. Europe Uncooled Infrared Thermal Camera Modules Sales Quantity by Country (2021-2026) & (K Units)

Table 115. Europe Uncooled Infrared Thermal Camera Modules Sales Quantity by Country (2027-2032) & (K Units)

Table 116. Europe Uncooled Infrared Thermal Camera Modules Consumption Value by Country (2021-2026) & (USD Million)

Table 117. Europe Uncooled Infrared Thermal Camera Modules Consumption Value by Country (2027-2032) & (USD Million)

Table 118. Asia-Pacific Uncooled Infrared Thermal Camera Modules Sales Quantity by Type (2021-2026) & (K Units)

Table 119. Asia-Pacific Uncooled Infrared Thermal Camera Modules Sales Quantity by Type (2027-2032) & (K Units)

Table 120. Asia-Pacific Uncooled Infrared Thermal Camera Modules Sales Quantity by Application (2021-2026) & (K Units)

Table 121. Asia-Pacific Uncooled Infrared Thermal Camera Modules Sales Quantity by Application (2027-2032) & (K Units)

Table 122. Asia-Pacific Uncooled Infrared Thermal Camera Modules Sales Quantity by Region (2021-2026) & (K Units)

Table 123. Asia-Pacific Uncooled Infrared Thermal Camera Modules Sales Quantity by Region (2027-2032) & (K Units)

Table 124. Asia-Pacific Uncooled Infrared Thermal Camera Modules Consumption Value by Region (2021-2026) & (USD Million)

Table 125. Asia-Pacific Uncooled Infrared Thermal Camera Modules Consumption Value by Region (2027-2032) & (USD Million)

Table 126. South America Uncooled Infrared Thermal Camera Modules Sales Quantity by Type (2021-2026) & (K Units)

Table 127. South America Uncooled Infrared Thermal Camera Modules Sales Quantity by Type (2027-2032) & (K Units)

Table 128. South America Uncooled Infrared Thermal Camera Modules Sales Quantity by Application (2021-2026) & (K Units)

Table 129. South America Uncooled Infrared Thermal Camera Modules Sales Quantity by Application (2027-2032) & (K Units)

Table 130. South America Uncooled Infrared Thermal Camera Modules Sales Quantity by Country (2021-2026) & (K Units)

Table 131. South America Uncooled Infrared Thermal Camera Modules Sales Quantity by Country (2027-2032) & (K Units)

Table 132. South America Uncooled Infrared Thermal Camera Modules Consumption Value by Country (2021-2026) & (USD Million)

Table 133. South America Uncooled Infrared Thermal Camera Modules Consumption Value by Country (2027-2032) & (USD Million)

Table 134. Middle East & Africa Uncooled Infrared Thermal Camera Modules Sales Quantity by Type (2021-2026) & (K Units)

Table 135. Middle East & Africa Uncooled Infrared Thermal Camera Modules Sales Quantity by Type (2027-2032) & (K Units)

Table 136. Middle East & Africa Uncooled Infrared Thermal Camera Modules Sales Quantity by Application (2021-2026) & (K Units)

Table 137. Middle East & Africa Uncooled Infrared Thermal Camera Modules Sales Quantity by Application (2027-2032) & (K Units)

Table 138. Middle East & Africa Uncooled Infrared Thermal Camera Modules Sales Quantity by Country (2021-2026) & (K Units)

Table 139. Middle East & Africa Uncooled Infrared Thermal Camera Modules Sales Quantity by Country (2027-2032) & (K Units)

Table 140. Middle East & Africa Uncooled Infrared Thermal Camera Modules Consumption Value by Country (2021-2026) & (USD Million)

Table 141. Middle East & Africa Uncooled Infrared Thermal Camera Modules Consumption Value by Country (2027-2032) & (USD Million)

Table 142. Uncooled Infrared Thermal Camera Modules Raw Material

Table 143. Key Manufacturers of Uncooled Infrared Thermal Camera Modules Raw Materials

Table 144. Uncooled Infrared Thermal Camera Modules Typical Distributors

Table 145. Uncooled Infrared Thermal Camera Modules Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Uncooled Infrared Thermal Camera Modules Picture

Figure 2. Global Uncooled Infrared Thermal Camera Modules Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Uncooled Infrared Thermal Camera Modules Revenue Market Share by Type in 2025

Figure 4. VOx Examples

Figure 5. ?-Si Examples

Figure 6. Global Uncooled Infrared Thermal Camera Modules Revenue by Pixel Pitch, (USD Million), 2021 & 2025 & 2032

Figure 7. Global Uncooled Infrared Thermal Camera Modules Revenue Market Share by Pixel Pitch in 2025

Figure 8. 8?m/6?m Examples

Figure 9. 10?m Examples

Figure 10. 12?m Examples

Figure 11. 17?m Examples

Figure 12. Others Examples

Figure 13. Global Uncooled Infrared Thermal Camera Modules Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 14. Global Uncooled Infrared Thermal Camera Modules Revenue Market Share by Application in 2025

Figure 15. Civilian Examples

Figure 16. Government Examples

Figure 17. Military Examples

Figure 18. Global Uncooled Infrared Thermal Camera Modules Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 19. Global Uncooled Infrared Thermal Camera Modules Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 20. Global Uncooled Infrared Thermal Camera Modules Sales Quantity (2021-2032) & (K Units)

Figure 21. Global Uncooled Infrared Thermal Camera Modules Price (2021-2032) & (US\$/Unit)

Figure 22. Global Uncooled Infrared Thermal Camera Modules Sales Quantity Market Share by Manufacturer in 2025

Figure 23. Global Uncooled Infrared Thermal Camera Modules Revenue Market Share by Manufacturer in 2025

Figure 24. Producer Shipments of Uncooled Infrared Thermal Camera Modules by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 25. Top 3 Uncooled Infrared Thermal Camera Modules Manufacturer (Revenue) Market Share in 2025

Figure 26. Top 6 Uncooled Infrared Thermal Camera Modules Manufacturer (Revenue) Market Share in 2025

Figure 27. Global Uncooled Infrared Thermal Camera Modules Sales Quantity Market Share by Region (2021-2032)

Figure 28. Global Uncooled Infrared Thermal Camera Modules Consumption Value Market Share by Region (2021-2032)

Figure 29. North America Uncooled Infrared Thermal Camera Modules Consumption Value (2021-2032) & (USD Million)

Figure 30. Europe Uncooled Infrared Thermal Camera Modules Consumption Value (2021-2032) & (USD Million)

Figure 31. Asia-Pacific Uncooled Infrared Thermal Camera Modules Consumption Value (2021-2032) & (USD Million)

Figure 32. South America Uncooled Infrared Thermal Camera Modules Consumption Value (2021-2032) & (USD Million)

Figure 33. Middle East & Africa Uncooled Infrared Thermal Camera Modules Consumption Value (2021-2032) & (USD Million)

Figure 34. Global Uncooled Infrared Thermal Camera Modules Sales Quantity Market Share by Type (2021-2032)

Figure 35. Global Uncooled Infrared Thermal Camera Modules Consumption Value Market Share by Type (2021-2032)

Figure 36. Global Uncooled Infrared Thermal Camera Modules Average Price by Type (2021-2032) & (US\$/Unit)

Figure 37. Global Uncooled Infrared Thermal Camera Modules Sales Quantity Market Share by Application (2021-2032)

Figure 38. Global Uncooled Infrared Thermal Camera Modules Revenue Market Share by Application (2021-2032)

Figure 39. Global Uncooled Infrared Thermal Camera Modules Average Price by Application (2021-2032) & (US\$/Unit)

Figure 40. North America Uncooled Infrared Thermal Camera Modules Sales Quantity Market Share by Type (2021-2032)

Figure 41. North America Uncooled Infrared Thermal Camera Modules Sales Quantity Market Share by Application (2021-2032)

Figure 42. North America Uncooled Infrared Thermal Camera Modules Sales Quantity Market Share by Country (2021-2032)

Figure 43. North America Uncooled Infrared Thermal Camera Modules Consumption

Value Market Share by Country (2021-2032)

Figure 44. United States Uncooled Infrared Thermal Camera Modules Consumption Value (2021-2032) & (USD Million)

Figure 45. Canada Uncooled Infrared Thermal Camera Modules Consumption Value (2021-2032) & (USD Million)

Figure 46. Mexico Uncooled Infrared Thermal Camera Modules Consumption Value (2021-2032) & (USD Million)

Figure 47. Europe Uncooled Infrared Thermal Camera Modules Sales Quantity Market Share by Type (2021-2032)

Figure 48. Europe Uncooled Infrared Thermal Camera Modules Sales Quantity Market Share by Application (2021-2032)

Figure 49. Europe Uncooled Infrared Thermal Camera Modules Sales Quantity Market Share by Country (2021-2032)

Figure 50. Europe Uncooled Infrared Thermal Camera Modules Consumption Value Market Share by Country (2021-2032)

Figure 51. Germany Uncooled Infrared Thermal Camera Modules Consumption Value (2021-2032) & (USD Million)

Figure 52. France Uncooled Infrared Thermal Camera Modules Consumption Value (2021-2032) & (USD Million)

Figure 53. United Kingdom Uncooled Infrared Thermal Camera Modules Consumption Value (2021-2032) & (USD Million)

Figure 54. Russia Uncooled Infrared Thermal Camera Modules Consumption Value (2021-2032) & (USD Million)

Figure 55. Italy Uncooled Infrared Thermal Camera Modules Consumption Value (2021-2032) & (USD Million)

Figure 56. Asia-Pacific Uncooled Infrared Thermal Camera Modules Sales Quantity Market Share by Type (2021-2032)

Figure 57. Asia-Pacific Uncooled Infrared Thermal Camera Modules Sales Quantity Market Share by Application (2021-2032)

Figure 58. Asia-Pacific Uncooled Infrared Thermal Camera Modules Sales Quantity Market Share by Region (2021-2032)

Figure 59. Asia-Pacific Uncooled Infrared Thermal Camera Modules Consumption Value Market Share by Region (2021-2032)

Figure 60. China Uncooled Infrared Thermal Camera Modules Consumption Value (2021-2032) & (USD Million)

Figure 61. Japan Uncooled Infrared Thermal Camera Modules Consumption Value (2021-2032) & (USD Million)

Figure 62. South Korea Uncooled Infrared Thermal Camera Modules Consumption Value (2021-2032) & (USD Million)

Figure 63. India Uncooled Infrared Thermal Camera Modules Consumption Value (2021-2032) & (USD Million)

Figure 64. Southeast Asia Uncooled Infrared Thermal Camera Modules Consumption Value (2021-2032) & (USD Million)

Figure 65. Australia Uncooled Infrared Thermal Camera Modules Consumption Value (2021-2032) & (USD Million)

Figure 66. South America Uncooled Infrared Thermal Camera Modules Sales Quantity Market Share by Type (2021-2032)

Figure 67. South America Uncooled Infrared Thermal Camera Modules Sales Quantity Market Share by Application (2021-2032)

Figure 68. South America Uncooled Infrared Thermal Camera Modules Sales Quantity Market Share by Country (2021-2032)

Figure 69. South America Uncooled Infrared Thermal Camera Modules Consumption Value Market Share by Country (2021-2032)

Figure 70. Brazil Uncooled Infrared Thermal Camera Modules Consumption Value (2021-2032) & (USD Million)

Figure 71. Argentina Uncooled Infrared Thermal Camera Modules Consumption Value (2021-2032) & (USD Million)

Figure 72. Middle East & Africa Uncooled Infrared Thermal Camera Modules Sales Quantity Market Share by Type (2021-2032)

Figure 73. Middle East & Africa Uncooled Infrared Thermal Camera Modules Sales Quantity Market Share by Application (2021-2032)

Figure 74. Middle East & Africa Uncooled Infrared Thermal Camera Modules Sales Quantity Market Share by Country (2021-2032)

Figure 75. Middle East & Africa Uncooled Infrared Thermal Camera Modules Consumption Value Market Share by Country (2021-2032)

Figure 76. Turkey Uncooled Infrared Thermal Camera Modules Consumption Value (2021-2032) & (USD Million)

Figure 77. Egypt Uncooled Infrared Thermal Camera Modules Consumption Value (2021-2032) & (USD Million)

Figure 78. Saudi Arabia Uncooled Infrared Thermal Camera Modules Consumption Value (2021-2032) & (USD Million)

Figure 79. South Africa Uncooled Infrared Thermal Camera Modules Consumption Value (2021-2032) & (USD Million)

Figure 80. Uncooled Infrared Thermal Camera Modules Market Drivers

Figure 81. Uncooled Infrared Thermal Camera Modules Market Restraints

Figure 82. Uncooled Infrared Thermal Camera Modules Market Trends

Figure 83. Porters Five Forces Analysis

Figure 84. Manufacturing Cost Structure Analysis of Uncooled Infrared Thermal Camera

Modules in 2025

Figure 85. Manufacturing Process Analysis of Uncooled Infrared Thermal Camera

Modules

Figure 86. Uncooled Infrared Thermal Camera Modules Industrial Chain

Figure 87. Sales Channel: Direct to End-User vs Distributors

Figure 88. Direct Channel Pros & Cons

Figure 89. Indirect Channel Pros & Cons

Figure 90. Methodology

Figure 91. Research Process and Data Source

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