

Global Uncooled Infrared Microbolometer Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Uncooled Infrared Microbolometer market size is expected to reach \$ 4352 million by 2032, rising at a market growth of 11.8% CAGR during the forecast period (2026-2032).

An uncooled infrared microbolometer is a sensor used for thermal imaging and infrared radiation detection. It absorbs infrared radiation (thermal radiation), causing a change in the temperature of the sensing material, and converts this temperature change into an electrical signal. Unlike traditional infrared detectors that require cooling, uncooled microbolometers do not require a cooling system, thus offering advantages such as simple structure, low cost, small size, and fast response. In 2025, global production of uncooled infrared microbolometers reached 1760.77 thousand units, with an average price of approximately US\$1090 per unit and a gross profit margin of approximately 46.87%.

Uncooled infrared microbolometers have established a broad and deep application ecosystem in fields such as thermal imaging, night vision, surveillance, automotive driver assistance, and industrial inspection. With the development of intelligent manufacturing, AI image processing, and sensor integration technologies, the microbolometer market is showing a steady growth trend and is expanding from traditional security and industrial applications to emerging high-growth areas such as consumer electronics and automotive thermal imaging. Cost optimization, resolution improvement, and intelligent integration will be key directions for future market competition.

This report studies the global Uncooled Infrared Microbolometer production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Uncooled Infrared Microbolometer and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Uncooled Infrared Microbolometer that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Uncooled Infrared Microbolometer total production and demand, 2021-2032, (K Units)

Global Uncooled Infrared Microbolometer total production value, 2021-2032, (USD Million)

Global Uncooled Infrared Microbolometer production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Uncooled Infrared Microbolometer consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Uncooled Infrared Microbolometer domestic production, consumption, key domestic manufacturers and share

Global Uncooled Infrared Microbolometer production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Uncooled Infrared Microbolometer production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Uncooled Infrared Microbolometer production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Uncooled Infrared Microbolometer market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Teledyne FLIR, Lynred SAS, Leonardo DRS, BAE Systems, Raytheon, L3Harris Technologies, NEC, SCD, Zhejiang Dali, Yantai Raytron, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Uncooled Infrared Microbolometer market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Uncooled Infrared Microbolometer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Uncooled Infrared Microbolometer Market, Segmentation by Type:

Vanadium Oxide (VOx)

Amorphous Silicon (A-Si)

Other

Global Uncooled Infrared Microbolometer Market, Segmentation by Detection Technology:

Thermopile

MEMS

Global Uncooled Infrared Microbolometer Market, Segmentation by Channel:

Direct Selling

Distribution

Global Uncooled Infrared Microbolometer Market, Segmentation by Application:

Aerospace & Defense

Automotive

Video Surveillance

Thermography

Other

Companies Profiled:

Teledyne FLIR

Lynred SAS

Leonardo DRS

BAE Systems

Raytheon

L3Harris Technologies

NEC

SCD

Zhejiang Dali

Yantai Raytron

North GuangWei

Workswell s.r.o.

Key Questions Answered:

1. How big is the global Uncooled Infrared Microbolometer market?
2. What is the demand of the global Uncooled Infrared Microbolometer market?
3. What is the year over year growth of the global Uncooled Infrared Microbolometer market?
4. What is the production and production value of the global Uncooled Infrared Microbolometer market?
5. Who are the key producers in the global Uncooled Infrared Microbolometer market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Uncooled Infrared Microbolometer Introduction
- 1.2 World Uncooled Infrared Microbolometer Supply & Forecast
 - 1.2.1 World Uncooled Infrared Microbolometer Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Uncooled Infrared Microbolometer Production (2021-2032)
 - 1.2.3 World Uncooled Infrared Microbolometer Pricing Trends (2021-2032)
- 1.3 World Uncooled Infrared Microbolometer Production by Region (Based on Production Site)
 - 1.3.1 World Uncooled Infrared Microbolometer Production Value by Region (2021-2032)
 - 1.3.2 World Uncooled Infrared Microbolometer Production by Region (2021-2032)
 - 1.3.3 World Uncooled Infrared Microbolometer Average Price by Region (2021-2032)
 - 1.3.4 North America Uncooled Infrared Microbolometer Production (2021-2032)
 - 1.3.5 Europe Uncooled Infrared Microbolometer Production (2021-2032)
 - 1.3.6 China Uncooled Infrared Microbolometer Production (2021-2032)
 - 1.3.7 Japan Uncooled Infrared Microbolometer Production (2021-2032)
 - 1.3.8 South Korea Uncooled Infrared Microbolometer Production (2021-2032)
 - 1.3.9 India Uncooled Infrared Microbolometer Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Uncooled Infrared Microbolometer Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Uncooled Infrared Microbolometer Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Uncooled Infrared Microbolometer Demand (2021-2032)
- 2.2 World Uncooled Infrared Microbolometer Consumption by Region
 - 2.2.1 World Uncooled Infrared Microbolometer Consumption by Region (2021-2026)
 - 2.2.2 World Uncooled Infrared Microbolometer Consumption Forecast by Region (2027-2032)
- 2.3 United States Uncooled Infrared Microbolometer Consumption (2021-2032)
- 2.4 China Uncooled Infrared Microbolometer Consumption (2021-2032)
- 2.5 Europe Uncooled Infrared Microbolometer Consumption (2021-2032)
- 2.6 Japan Uncooled Infrared Microbolometer Consumption (2021-2032)
- 2.7 South Korea Uncooled Infrared Microbolometer Consumption (2021-2032)

2.8 ASEAN Uncooled Infrared Microbolometer Consumption (2021-2032)

2.9 India Uncooled Infrared Microbolometer Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Uncooled Infrared Microbolometer Production Value by Manufacturer (2021-2026)

3.2 World Uncooled Infrared Microbolometer Production by Manufacturer (2021-2026)

3.3 World Uncooled Infrared Microbolometer Average Price by Manufacturer (2021-2026)

3.4 Uncooled Infrared Microbolometer Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Uncooled Infrared Microbolometer Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Uncooled Infrared Microbolometer in 2025

3.5.3 Global Concentration Ratios (CR8) for Uncooled Infrared Microbolometer in 2025

3.6 Uncooled Infrared Microbolometer Market: Overall Company Footprint Analysis

3.6.1 Uncooled Infrared Microbolometer Market: Region Footprint

3.6.2 Uncooled Infrared Microbolometer Market: Company Product Type Footprint

3.6.3 Uncooled Infrared Microbolometer Market: Company Product Application

Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Uncooled Infrared Microbolometer Production Value Comparison

4.1.1 United States VS China: Uncooled Infrared Microbolometer Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Uncooled Infrared Microbolometer Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Uncooled Infrared Microbolometer Production Comparison

4.2.1 United States VS China: Uncooled Infrared Microbolometer Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Uncooled Infrared Microbolometer Production Market

Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Uncooled Infrared Microbolometer Consumption Comparison

4.3.1 United States VS China: Uncooled Infrared Microbolometer Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Uncooled Infrared Microbolometer Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Uncooled Infrared Microbolometer Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Uncooled Infrared Microbolometer Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Uncooled Infrared Microbolometer Production Value (2021-2026)

4.4.3 United States Based Manufacturers Uncooled Infrared Microbolometer Production (2021-2026)

4.5 China Based Uncooled Infrared Microbolometer Manufacturers and Market Share

4.5.1 China Based Uncooled Infrared Microbolometer Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Uncooled Infrared Microbolometer Production Value (2021-2026)

4.5.3 China Based Manufacturers Uncooled Infrared Microbolometer Production (2021-2026)

4.6 Rest of World Based Uncooled Infrared Microbolometer Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Uncooled Infrared Microbolometer Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Uncooled Infrared Microbolometer Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Uncooled Infrared Microbolometer Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Uncooled Infrared Microbolometer Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Vanadium Oxide (VOx)

5.2.2 Amorphous Silicon (A-Si)

5.2.3 Other

5.3 Market Segment by Type

5.3.1 World Uncooled Infrared Microbolometer Production by Type (2021-2032)

5.3.2 World Uncooled Infrared Microbolometer Production Value by Type (2021-2032)

5.3.3 World Uncooled Infrared Microbolometer Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY DETECTION TECHNOLOGY

6.1 World Uncooled Infrared Microbolometer Market Size Overview by Detection Technology: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Detection Technology

6.2.1 Thermopile

6.2.2 MEMS

6.3 Market Segment by Detection Technology

6.3.1 World Uncooled Infrared Microbolometer Production by Detection Technology (2021-2032)

6.3.2 World Uncooled Infrared Microbolometer Production Value by Detection Technology (2021-2032)

6.3.3 World Uncooled Infrared Microbolometer Average Price by Detection Technology (2021-2032)

7 MARKET ANALYSIS BY CHANNEL

7.1 World Uncooled Infrared Microbolometer Market Size Overview by Channel: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Channel

7.2.1 Direct Selling

7.2.2 Distribution

7.3 Market Segment by Channel

7.3.1 World Uncooled Infrared Microbolometer Production by Channel (2021-2032)

7.3.2 World Uncooled Infrared Microbolometer Production Value by Channel (2021-2032)

7.3.3 World Uncooled Infrared Microbolometer Average Price by Channel (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Uncooled Infrared Microbolometer Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Aerospace & Defense

- 8.2.2 Automotive
- 8.2.3 Video Surveillance
- 8.2.4 Thermography
- 8.2.5 Other

8.3 Market Segment by Application

- 8.3.1 World Uncooled Infrared Microbolometer Production by Application (2021-2032)
- 8.3.2 World Uncooled Infrared Microbolometer Production Value by Application (2021-2032)
- 8.3.3 World Uncooled Infrared Microbolometer Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Teledyne FLIR

- 9.1.1 Teledyne FLIR Details
- 9.1.2 Teledyne FLIR Major Business
- 9.1.3 Teledyne FLIR Uncooled Infrared Microbolometer Product and Services
- 9.1.4 Teledyne FLIR Uncooled Infrared Microbolometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 Teledyne FLIR Recent Developments/Updates
- 9.1.6 Teledyne FLIR Competitive Strengths & Weaknesses

9.2 Lynred SAS

- 9.2.1 Lynred SAS Details
- 9.2.2 Lynred SAS Major Business
- 9.2.3 Lynred SAS Uncooled Infrared Microbolometer Product and Services
- 9.2.4 Lynred SAS Uncooled Infrared Microbolometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 Lynred SAS Recent Developments/Updates
- 9.2.6 Lynred SAS Competitive Strengths & Weaknesses

9.3 Leonardo DRS

- 9.3.1 Leonardo DRS Details
- 9.3.2 Leonardo DRS Major Business
- 9.3.3 Leonardo DRS Uncooled Infrared Microbolometer Product and Services
- 9.3.4 Leonardo DRS Uncooled Infrared Microbolometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.3.5 Leonardo DRS Recent Developments/Updates
- 9.3.6 Leonardo DRS Competitive Strengths & Weaknesses

9.4 BAE Systems

- 9.4.1 BAE Systems Details

- 9.4.2 BAE Systems Major Business
- 9.4.3 BAE Systems Uncooled Infrared Microbolometer Product and Services
- 9.4.4 BAE Systems Uncooled Infrared Microbolometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.4.5 BAE Systems Recent Developments/Updates
- 9.4.6 BAE Systems Competitive Strengths & Weaknesses
- 9.5 Raytheon
 - 9.5.1 Raytheon Details
 - 9.5.2 Raytheon Major Business
 - 9.5.3 Raytheon Uncooled Infrared Microbolometer Product and Services
 - 9.5.4 Raytheon Uncooled Infrared Microbolometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Raytheon Recent Developments/Updates
 - 9.5.6 Raytheon Competitive Strengths & Weaknesses
- 9.6 L3Harris Technologies
 - 9.6.1 L3Harris Technologies Details
 - 9.6.2 L3Harris Technologies Major Business
 - 9.6.3 L3Harris Technologies Uncooled Infrared Microbolometer Product and Services
 - 9.6.4 L3Harris Technologies Uncooled Infrared Microbolometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 L3Harris Technologies Recent Developments/Updates
 - 9.6.6 L3Harris Technologies Competitive Strengths & Weaknesses
- 9.7 NEC
 - 9.7.1 NEC Details
 - 9.7.2 NEC Major Business
 - 9.7.3 NEC Uncooled Infrared Microbolometer Product and Services
 - 9.7.4 NEC Uncooled Infrared Microbolometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 NEC Recent Developments/Updates
 - 9.7.6 NEC Competitive Strengths & Weaknesses
- 9.8 SCD
 - 9.8.1 SCD Details
 - 9.8.2 SCD Major Business
 - 9.8.3 SCD Uncooled Infrared Microbolometer Product and Services
 - 9.8.4 SCD Uncooled Infrared Microbolometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 SCD Recent Developments/Updates
 - 9.8.6 SCD Competitive Strengths & Weaknesses
- 9.9 Zhejiang Dali

- 9.9.1 Zhejiang Dali Details
- 9.9.2 Zhejiang Dali Major Business
- 9.9.3 Zhejiang Dali Uncooled Infrared Microbolometer Product and Services
- 9.9.4 Zhejiang Dali Uncooled Infrared Microbolometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.9.5 Zhejiang Dali Recent Developments/Updates
- 9.9.6 Zhejiang Dali Competitive Strengths & Weaknesses
- 9.10 Yantai Raytron
 - 9.10.1 Yantai Raytron Details
 - 9.10.2 Yantai Raytron Major Business
 - 9.10.3 Yantai Raytron Uncooled Infrared Microbolometer Product and Services
 - 9.10.4 Yantai Raytron Uncooled Infrared Microbolometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Yantai Raytron Recent Developments/Updates
 - 9.10.6 Yantai Raytron Competitive Strengths & Weaknesses
- 9.11 North GuangWei
 - 9.11.1 North GuangWei Details
 - 9.11.2 North GuangWei Major Business
 - 9.11.3 North GuangWei Uncooled Infrared Microbolometer Product and Services
 - 9.11.4 North GuangWei Uncooled Infrared Microbolometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 North GuangWei Recent Developments/Updates
 - 9.11.6 North GuangWei Competitive Strengths & Weaknesses
- 9.12 Workswell s.r.o.
 - 9.12.1 Workswell s.r.o. Details
 - 9.12.2 Workswell s.r.o. Major Business
 - 9.12.3 Workswell s.r.o. Uncooled Infrared Microbolometer Product and Services
 - 9.12.4 Workswell s.r.o. Uncooled Infrared Microbolometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Workswell s.r.o. Recent Developments/Updates
 - 9.12.6 Workswell s.r.o. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Uncooled Infrared Microbolometer Industry Chain
- 10.2 Uncooled Infrared Microbolometer Upstream Analysis
 - 10.2.1 Uncooled Infrared Microbolometer Core Raw Materials
 - 10.2.2 Main Manufacturers of Uncooled Infrared Microbolometer Core Raw Materials
- 10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Uncooled Infrared Microbolometer Production Mode

10.6 Uncooled Infrared Microbolometer Procurement Model

10.7 Uncooled Infrared Microbolometer Industry Sales Model and Sales Channels

10.7.1 Uncooled Infrared Microbolometer Sales Model

10.7.2 Uncooled Infrared Microbolometer Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Uncooled Infrared Microbolometer Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Uncooled Infrared Microbolometer Production Value by Region (2021-2026) & (USD Million)

Table 3. World Uncooled Infrared Microbolometer Production Value by Region (2027-2032) & (USD Million)

Table 4. World Uncooled Infrared Microbolometer Production Value Market Share by Region (2021-2026)

Table 5. World Uncooled Infrared Microbolometer Production Value Market Share by Region (2027-2032)

Table 6. World Uncooled Infrared Microbolometer Production by Region (2021-2026) & (K Units)

Table 7. World Uncooled Infrared Microbolometer Production by Region (2027-2032) & (K Units)

Table 8. World Uncooled Infrared Microbolometer Production Market Share by Region (2021-2026)

Table 9. World Uncooled Infrared Microbolometer Production Market Share by Region (2027-2032)

Table 10. World Uncooled Infrared Microbolometer Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Uncooled Infrared Microbolometer Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Uncooled Infrared Microbolometer Major Market Trends

Table 13. World Uncooled Infrared Microbolometer Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Uncooled Infrared Microbolometer Consumption by Region (2021-2026) & (K Units)

Table 15. World Uncooled Infrared Microbolometer Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Uncooled Infrared Microbolometer Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Uncooled Infrared Microbolometer Producers in 2025

Table 18. World Uncooled Infrared Microbolometer Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Uncooled Infrared Microbolometer Producers in 2025

Table 20. World Uncooled Infrared Microbolometer Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Uncooled Infrared Microbolometer Company Evaluation Quadrant

Table 22. World Uncooled Infrared Microbolometer Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Uncooled Infrared Microbolometer Production Site of Key Manufacturer

Table 24. Uncooled Infrared Microbolometer Market: Company Product Type Footprint

Table 25. Uncooled Infrared Microbolometer Market: Company Product Application Footprint

Table 26. Uncooled Infrared Microbolometer Competitive Factors

Table 27. Uncooled Infrared Microbolometer New Entrant and Capacity Expansion Plans

Table 28. Uncooled Infrared Microbolometer Mergers & Acquisitions Activity

Table 29. United States VS China Uncooled Infrared Microbolometer Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Uncooled Infrared Microbolometer Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Uncooled Infrared Microbolometer Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Uncooled Infrared Microbolometer Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Uncooled Infrared Microbolometer Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Uncooled Infrared Microbolometer Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Uncooled Infrared Microbolometer Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Uncooled Infrared Microbolometer Production Market Share (2021-2026)

Table 37. China Based Uncooled Infrared Microbolometer Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Uncooled Infrared Microbolometer Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Uncooled Infrared Microbolometer Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Uncooled Infrared Microbolometer Production,

(2021-2026) & (K Units)

Table 41. China Based Manufacturers Uncooled Infrared Microbolometer Production Market Share (2021-2026)

Table 42. Rest of World Based Uncooled Infrared Microbolometer Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Uncooled Infrared Microbolometer Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Uncooled Infrared Microbolometer Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Uncooled Infrared Microbolometer Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Uncooled Infrared Microbolometer Production Market Share (2021-2026)

Table 47. World Uncooled Infrared Microbolometer Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Uncooled Infrared Microbolometer Production by Type (2021-2026) & (K Units)

Table 49. World Uncooled Infrared Microbolometer Production by Type (2027-2032) & (K Units)

Table 50. World Uncooled Infrared Microbolometer Production Value by Type (2021-2026) & (USD Million)

Table 51. World Uncooled Infrared Microbolometer Production Value by Type (2027-2032) & (USD Million)

Table 52. World Uncooled Infrared Microbolometer Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Uncooled Infrared Microbolometer Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Uncooled Infrared Microbolometer Production Value by Detection Technology, (USD Million), 2021 & 2025 & 2032

Table 55. World Uncooled Infrared Microbolometer Production by Detection Technology (2021-2026) & (K Units)

Table 56. World Uncooled Infrared Microbolometer Production by Detection Technology (2027-2032) & (K Units)

Table 57. World Uncooled Infrared Microbolometer Production Value by Detection Technology (2021-2026) & (USD Million)

Table 58. World Uncooled Infrared Microbolometer Production Value by Detection Technology (2027-2032) & (USD Million)

Table 59. World Uncooled Infrared Microbolometer Average Price by Detection Technology (2021-2026) & (US\$/Unit)

Table 60. World Uncooled Infrared Microbolometer Average Price by Detection Technology (2027-2032) & (US\$/Unit)

Table 61. World Uncooled Infrared Microbolometer Production Value by Channel, (USD Million), 2021 & 2025 & 2032

Table 62. World Uncooled Infrared Microbolometer Production by Channel (2021-2026) & (K Units)

Table 63. World Uncooled Infrared Microbolometer Production by Channel (2027-2032) & (K Units)

Table 64. World Uncooled Infrared Microbolometer Production Value by Channel (2021-2026) & (USD Million)

Table 65. World Uncooled Infrared Microbolometer Production Value by Channel (2027-2032) & (USD Million)

Table 66. World Uncooled Infrared Microbolometer Average Price by Channel (2021-2026) & (US\$/Unit)

Table 67. World Uncooled Infrared Microbolometer Average Price by Channel (2027-2032) & (US\$/Unit)

Table 68. World Uncooled Infrared Microbolometer Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Uncooled Infrared Microbolometer Production by Application (2021-2026) & (K Units)

Table 70. World Uncooled Infrared Microbolometer Production by Application (2027-2032) & (K Units)

Table 71. World Uncooled Infrared Microbolometer Production Value by Application (2021-2026) & (USD Million)

Table 72. World Uncooled Infrared Microbolometer Production Value by Application (2027-2032) & (USD Million)

Table 73. World Uncooled Infrared Microbolometer Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Uncooled Infrared Microbolometer Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Teledyne FLIR Basic Information, Manufacturing Base and Competitors

Table 76. Teledyne FLIR Major Business

Table 77. Teledyne FLIR Uncooled Infrared Microbolometer Product and Services

Table 78. Teledyne FLIR Uncooled Infrared Microbolometer Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Teledyne FLIR Recent Developments/Updates

Table 80. Teledyne FLIR Competitive Strengths & Weaknesses

Table 81. Lynred SAS Basic Information, Manufacturing Base and Competitors

Table 82. Lynred SAS Major Business

Table 83. Lynred SAS Uncooled Infrared Microbolometer Product and Services

Table 84. Lynred SAS Uncooled Infrared Microbolometer Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Lynred SAS Recent Developments/Updates

Table 86. Lynred SAS Competitive Strengths & Weaknesses

Table 87. Leonardo DRS Basic Information, Manufacturing Base and Competitors

Table 88. Leonardo DRS Major Business

Table 89. Leonardo DRS Uncooled Infrared Microbolometer Product and Services

Table 90. Leonardo DRS Uncooled Infrared Microbolometer Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Leonardo DRS Recent Developments/Updates

Table 92. Leonardo DRS Competitive Strengths & Weaknesses

Table 93. BAE Systems Basic Information, Manufacturing Base and Competitors

Table 94. BAE Systems Major Business

Table 95. BAE Systems Uncooled Infrared Microbolometer Product and Services

Table 96. BAE Systems Uncooled Infrared Microbolometer Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. BAE Systems Recent Developments/Updates

Table 98. BAE Systems Competitive Strengths & Weaknesses

Table 99. Raytheon Basic Information, Manufacturing Base and Competitors

Table 100. Raytheon Major Business

Table 101. Raytheon Uncooled Infrared Microbolometer Product and Services

Table 102. Raytheon Uncooled Infrared Microbolometer Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Raytheon Recent Developments/Updates

Table 104. Raytheon Competitive Strengths & Weaknesses

Table 105. L3Harris Technologies Basic Information, Manufacturing Base and Competitors

Table 106. L3Harris Technologies Major Business

Table 107. L3Harris Technologies Uncooled Infrared Microbolometer Product and Services

Table 108. L3Harris Technologies Uncooled Infrared Microbolometer Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 109. L3Harris Technologies Recent Developments/Updates
- Table 110. L3Harris Technologies Competitive Strengths & Weaknesses
- Table 111. NEC Basic Information, Manufacturing Base and Competitors
- Table 112. NEC Major Business
- Table 113. NEC Uncooled Infrared Microbolometer Product and Services
- Table 114. NEC Uncooled Infrared Microbolometer Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. NEC Recent Developments/Updates
- Table 116. NEC Competitive Strengths & Weaknesses
- Table 117. SCD Basic Information, Manufacturing Base and Competitors
- Table 118. SCD Major Business
- Table 119. SCD Uncooled Infrared Microbolometer Product and Services
- Table 120. SCD Uncooled Infrared Microbolometer Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. SCD Recent Developments/Updates
- Table 122. SCD Competitive Strengths & Weaknesses
- Table 123. Zhejiang Dali Basic Information, Manufacturing Base and Competitors
- Table 124. Zhejiang Dali Major Business
- Table 125. Zhejiang Dali Uncooled Infrared Microbolometer Product and Services
- Table 126. Zhejiang Dali Uncooled Infrared Microbolometer Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Zhejiang Dali Recent Developments/Updates
- Table 128. Zhejiang Dali Competitive Strengths & Weaknesses
- Table 129. Yantai Raytron Basic Information, Manufacturing Base and Competitors
- Table 130. Yantai Raytron Major Business
- Table 131. Yantai Raytron Uncooled Infrared Microbolometer Product and Services
- Table 132. Yantai Raytron Uncooled Infrared Microbolometer Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Yantai Raytron Recent Developments/Updates
- Table 134. Yantai Raytron Competitive Strengths & Weaknesses
- Table 135. North GuangWei Basic Information, Manufacturing Base and Competitors
- Table 136. North GuangWei Major Business
- Table 137. North GuangWei Uncooled Infrared Microbolometer Product and Services
- Table 138. North GuangWei Uncooled Infrared Microbolometer Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 139. North GuangWei Recent Developments/Updates

Table 140. North GuangWei Competitive Strengths & Weaknesses

Table 141. Workswell s.r.o. Basic Information, Manufacturing Base and Competitors

Table 142. Workswell s.r.o. Major Business

Table 143. Workswell s.r.o. Uncooled Infrared Microbolometer Product and Services

Table 144. Workswell s.r.o. Uncooled Infrared Microbolometer Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 145. Workswell s.r.o. Recent Developments/Updates

Table 146. Workswell s.r.o. Competitive Strengths & Weaknesses

Table 147. Global Key Players of Uncooled Infrared Microbolometer Upstream (Raw Materials)

Table 148. Global Uncooled Infrared Microbolometer Typical Customers

Table 149. Uncooled Infrared Microbolometer Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Uncooled Infrared Microbolometer Picture

Figure 2. World Uncooled Infrared Microbolometer Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Uncooled Infrared Microbolometer Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Uncooled Infrared Microbolometer Production (2021-2032) & (K Units)

Figure 5. World Uncooled Infrared Microbolometer Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Uncooled Infrared Microbolometer Production Value Market Share by Region (2021-2032)

Figure 7. World Uncooled Infrared Microbolometer Production Market Share by Region (2021-2032)

Figure 8. North America Uncooled Infrared Microbolometer Production (2021-2032) & (K Units)

Figure 9. Europe Uncooled Infrared Microbolometer Production (2021-2032) & (K Units)

Figure 10. China Uncooled Infrared Microbolometer Production (2021-2032) & (K Units)

Figure 11. Japan Uncooled Infrared Microbolometer Production (2021-2032) & (K Units)

Figure 12. South Korea Uncooled Infrared Microbolometer Production (2021-2032) & (K Units)

Figure 13. India Uncooled Infrared Microbolometer Production (2021-2032) & (K Units)

Figure 14. Uncooled Infrared Microbolometer Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Uncooled Infrared Microbolometer Consumption (2021-2032) & (K Units)

Figure 17. World Uncooled Infrared Microbolometer Consumption Market Share by Region (2021-2032)

Figure 18. United States Uncooled Infrared Microbolometer Consumption (2021-2032) & (K Units)

Figure 19. China Uncooled Infrared Microbolometer Consumption (2021-2032) & (K Units)

Figure 20. Europe Uncooled Infrared Microbolometer Consumption (2021-2032) & (K Units)

Figure 21. Japan Uncooled Infrared Microbolometer Consumption (2021-2032) & (K Units)

Figure 22. South Korea Uncooled Infrared Microbolometer Consumption (2021-2032) &

(K Units)

Figure 23. ASEAN Uncooled Infrared Microbolometer Consumption (2021-2032) & (K Units)

Figure 24. India Uncooled Infrared Microbolometer Consumption (2021-2032) & (K Units)

Figure 25. Producer Shipments of Uncooled Infrared Microbolometer by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Uncooled Infrared Microbolometer Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Uncooled Infrared Microbolometer Markets in 2025

Figure 28. United States VS China: Uncooled Infrared Microbolometer Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Uncooled Infrared Microbolometer Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Uncooled Infrared Microbolometer Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Uncooled Infrared Microbolometer Production Market Share 2025

Figure 32. China Based Manufacturers Uncooled Infrared Microbolometer Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Uncooled Infrared Microbolometer Production Market Share 2025

Figure 34. World Uncooled Infrared Microbolometer Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Uncooled Infrared Microbolometer Production Value Market Share by Type in 2025

Figure 36. Vanadium Oxide (VO_x)

Figure 37. Amorphous Silicon (A-Si)

Figure 38. Other

Figure 39. World Uncooled Infrared Microbolometer Production Market Share by Type (2021-2032)

Figure 40. World Uncooled Infrared Microbolometer Production Value Market Share by Type (2021-2032)

Figure 41. World Uncooled Infrared Microbolometer Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. World Uncooled Infrared Microbolometer Production Value by Detection Technology, (USD Million), 2021 & 2025 & 2032

Figure 43. World Uncooled Infrared Microbolometer Production Value Market Share by

Detection Technology in 2025

Figure 44. Thermopile

Figure 45. MEMS

Figure 46. World Uncooled Infrared Microbolometer Production Market Share by Detection Technology (2021-2032)

Figure 47. World Uncooled Infrared Microbolometer Production Value Market Share by Detection Technology (2021-2032)

Figure 48. World Uncooled Infrared Microbolometer Average Price by Detection Technology (2021-2032) & (US\$/Unit)

Figure 49. World Uncooled Infrared Microbolometer Production Value by Channel, (USD Million), 2021 & 2025 & 2032

Figure 50. World Uncooled Infrared Microbolometer Production Value Market Share by Channel in 2025

Figure 51. Direct Selling

Figure 52. Distribution

Figure 53. World Uncooled Infrared Microbolometer Production Market Share by Channel (2021-2032)

Figure 54. World Uncooled Infrared Microbolometer Production Value Market Share by Channel (2021-2032)

Figure 55. World Uncooled Infrared Microbolometer Average Price by Channel (2021-2032) & (US\$/Unit)

Figure 56. World Uncooled Infrared Microbolometer Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Uncooled Infrared Microbolometer Production Value Market Share by Application in 2025

Figure 58. Aerospace & Defense

Figure 59. Automotive

Figure 60. Video Surveillance

Figure 61. Thermography

Figure 62. Other

Figure 63. World Uncooled Infrared Microbolometer Production Market Share by Application (2021-2032)

Figure 64. World Uncooled Infrared Microbolometer Production Value Market Share by Application (2021-2032)

Figure 65. World Uncooled Infrared Microbolometer Average Price by Application (2021-2032) & (US\$/Unit)

Figure 66. Uncooled Infrared Microbolometer Industry Chain

Figure 67. Uncooled Infrared Microbolometer Procurement Model

Figure 68. Uncooled Infrared Microbolometer Sales Model

Figure 69. Uncooled Infrared Microbolometer Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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