

Global Thermopile Microbolometer Infrared Detector Market Research Report 2026(Status and Outlook)

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Abstracts

Thermopile Microbolometer Infrared Detector belongs to uncooled thermal detector. It includes 3 types of product:Microbolometer IR Detector (MIRD) that change in resistance, which mainly use the technology of VOx and a-Si;Thermopile IR Detector (TIRD) that change in electromotive force;Pyroelectric IR Detectors (PIRD) that change in dielectric surface charge.Global Low Molecular Weight Heparin main players are Aspen, Sanofi-aventis, CSBIO, Dongying Tiandong Pharmaceutical, Techdow, etc. Top four companies hold a share above 60%. North America is the largest market, with a share about 55%.

The global Thermopile Microbolometer Infrared Detector market size was estimated at USD 3311.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 9.40% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Thermopile Microbolometer Infrared Detector 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 Thermopile Microbolometer Infrared Detector 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 Thermopile Microbolometer Infrared Detector market.

Global Thermopile Microbolometer Infrared Detector 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

Excelitas Technologies
Nippon Ceramic
Hamamatsu Photonic
Murata Manufacturing
Flir Systems
Texas Instruments
Sofradir
Infra TEC GmbH
DRS
Zhejiang Dali
IRay Technology
North GuangWei

Market Segmentation (by Type)

Microbolometer IR Detector
Thermopile IR Detector
Pyroelectric IR Detector

Market Segmentation (by Application)

Military and Defense
Automotive
Smart Home
Medicine
Others

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 Thermopile Microbolometer Infrared Detector Market
Overview of the regional outlook of the Thermopile Microbolometer Infrared Detector Market:

Customization of the Report

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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 Thermopile Microbolometer Infrared Detector 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 Thermopile Microbolometer Infrared Detector, 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

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Thermopile Microbolometer Infrared Detector

1.2 Key Market Segments

1.2.1 Thermopile Microbolometer Infrared Detector Segment by Type

1.2.2 Thermopile Microbolometer Infrared Detector 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 THERMOPILE MICROBOLOMETER INFRARED DETECTOR MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Thermopile Microbolometer Infrared Detector Market Size (M USD) Estimates and Forecasts (2020-2035)

2.1.2 Global Thermopile Microbolometer Infrared Detector Sales Estimates and Forecasts (2020-2035)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 THERMOPILE MICROBOLOMETER INFRARED DETECTOR MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Thermopile Microbolometer Infrared Detector Product Life Cycle

3.3 Global Thermopile Microbolometer Infrared Detector Sales by Manufacturers (2020-2025)

3.4 Global Thermopile Microbolometer Infrared Detector Revenue Market Share by Manufacturers (2020-2025)

3.5 Thermopile Microbolometer Infrared Detector Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Thermopile Microbolometer Infrared Detector Average Price by Manufacturers (2020-2025)

- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Thermopile Microbolometer Infrared Detector Market Competitive Situation and Trends
 - 3.8.1 Thermopile Microbolometer Infrared Detector Market Concentration Rate
 - 3.8.2 Global 5 and 10 Largest Thermopile Microbolometer Infrared Detector Players
- Market Share by Revenue
 - 3.8.3 Mergers & Acquisitions, Expansion

4 THERMOPILE MICROBOLOMETER INFRARED DETECTOR INDUSTRY CHAIN ANALYSIS

- 4.1 Thermopile Microbolometer Infrared Detector 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 THERMOPILE MICROBOLOMETER INFRARED DETECTOR 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 Thermopile Microbolometer Infrared Detector 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 Thermopile Microbolometer Infrared Detector Market
- 5.7 ESG Ratings of Leading Companies

6 THERMOPILE MICROBOLOMETER INFRARED DETECTOR MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Thermopile Microbolometer Infrared Detector Sales Market Share by Type (2020-2025)
- 6.3 Global Thermopile Microbolometer Infrared Detector Market Size by Type (2020-2025)
- 6.4 Global Thermopile Microbolometer Infrared Detector Price by Type (2020-2025)

7 THERMOPILE MICROBOLOMETER INFRARED DETECTOR MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Thermopile Microbolometer Infrared Detector Market Sales by Application (2020-2025)
- 7.3 Global Thermopile Microbolometer Infrared Detector Market Size (M USD) by Application (2020-2025)
- 7.4 Global Thermopile Microbolometer Infrared Detector Sales Growth Rate by Application (2020-2025)

8 THERMOPILE MICROBOLOMETER INFRARED DETECTOR MARKET SALES BY REGION

- 8.1 Global Thermopile Microbolometer Infrared Detector Sales by Region
 - 8.1.1 Global Thermopile Microbolometer Infrared Detector Sales by Region
 - 8.1.2 Global Thermopile Microbolometer Infrared Detector Sales Market Share by Region
- 8.2 Global Thermopile Microbolometer Infrared Detector Market Size by Region
 - 8.2.1 Global Thermopile Microbolometer Infrared Detector Market Size by Region
 - 8.2.2 Global Thermopile Microbolometer Infrared Detector Market Size by Region
- 8.3 North America
 - 8.3.1 North America Thermopile Microbolometer Infrared Detector Sales by Country
 - 8.3.2 North America Thermopile Microbolometer Infrared Detector 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 Thermopile Microbolometer Infrared Detector Sales by Country

8.4.2 Europe Thermopile Microbolometer Infrared Detector 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 Thermopile Microbolometer Infrared Detector Sales by Region

8.5.2 Asia Pacific Thermopile Microbolometer Infrared Detector 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 Thermopile Microbolometer Infrared Detector Sales by Country

8.6.2 South America Thermopile Microbolometer Infrared Detector 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 Thermopile Microbolometer Infrared Detector Sales by Region

8.7.2 Middle East and Africa Thermopile Microbolometer Infrared Detector 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 THERMOPILE MICROBOLOMETER INFRARED DETECTOR MARKET PRODUCTION BY REGION

9.1 Global Production of Thermopile Microbolometer Infrared Detector by Region(2020-2025)

9.2 Global Thermopile Microbolometer Infrared Detector Revenue Market Share by Region (2020-2025)

9.3 Global Thermopile Microbolometer Infrared Detector Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America Thermopile Microbolometer Infrared Detector Production

9.4.1 North America Thermopile Microbolometer Infrared Detector Production Growth Rate (2020-2025)

9.4.2 North America Thermopile Microbolometer Infrared Detector Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe Thermopile Microbolometer Infrared Detector Production

9.5.1 Europe Thermopile Microbolometer Infrared Detector Production Growth Rate (2020-2025)

9.5.2 Europe Thermopile Microbolometer Infrared Detector Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Thermopile Microbolometer Infrared Detector Production (2020-2025)

9.6.1 Japan Thermopile Microbolometer Infrared Detector Production Growth Rate (2020-2025)

9.6.2 Japan Thermopile Microbolometer Infrared Detector Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Thermopile Microbolometer Infrared Detector Production (2020-2025)

9.7.1 China Thermopile Microbolometer Infrared Detector Production Growth Rate (2020-2025)

9.7.2 China Thermopile Microbolometer Infrared Detector Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Excelitas Technologies

10.1.1 Excelitas Technologies Basic Information

10.1.2 Excelitas Technologies Thermopile Microbolometer Infrared Detector Product Overview

10.1.3 Excelitas Technologies Thermopile Microbolometer Infrared Detector Product Market Performance

10.1.4 Excelitas Technologies Business Overview

10.1.5 Excelitas Technologies SWOT Analysis

10.1.6 Excelitas Technologies Recent Developments

10.2 Nippon Ceramic

10.2.1 Nippon Ceramic Basic Information

10.2.2 Nippon Ceramic Thermopile Microbolometer Infrared Detector Product

Overview

10.2.3 Nippon Ceramic Thermopile Microbolometer Infrared Detector Product Market

Performance

10.2.4 Nippon Ceramic Business Overview

10.2.5 Nippon Ceramic SWOT Analysis

10.2.6 Nippon Ceramic Recent Developments

10.3 Hamamatsu Photonic

10.3.1 Hamamatsu Photonic Basic Information

10.3.2 Hamamatsu Photonic Thermopile Microbolometer Infrared Detector Product

Overview

10.3.3 Hamamatsu Photonic Thermopile Microbolometer Infrared Detector Product

Market Performance

10.3.4 Hamamatsu Photonic Business Overview

10.3.5 Hamamatsu Photonic SWOT Analysis

10.3.6 Hamamatsu Photonic Recent Developments

10.4 Murata Manufacturing

10.4.1 Murata Manufacturing Basic Information

10.4.2 Murata Manufacturing Thermopile Microbolometer Infrared Detector Product

Overview

10.4.3 Murata Manufacturing Thermopile Microbolometer Infrared Detector Product

Market Performance

10.4.4 Murata Manufacturing Business Overview

10.4.5 Murata Manufacturing Recent Developments

10.5 Flir Systems

10.5.1 Flir Systems Basic Information

10.5.2 Flir Systems Thermopile Microbolometer Infrared Detector Product Overview

10.5.3 Flir Systems Thermopile Microbolometer Infrared Detector Product Market

Performance

10.5.4 Flir Systems Business Overview

10.5.5 Flir Systems Recent Developments

10.6 Texas Instruments

10.6.1 Texas Instruments Basic Information

10.6.2 Texas Instruments Thermopile Microbolometer Infrared Detector Product

Overview

10.6.3 Texas Instruments Thermopile Microbolometer Infrared Detector Product

Market Performance

10.6.4 Texas Instruments Business Overview

10.6.5 Texas Instruments Recent Developments

10.7 Sofradir

- 10.7.1 Sofradir Basic Information
- 10.7.2 Sofradir Thermopile Microbolometer Infrared Detector Product Overview
- 10.7.3 Sofradir Thermopile Microbolometer Infrared Detector Product Market Performance
- 10.7.4 Sofradir Business Overview
- 10.7.5 Sofradir Recent Developments
- 10.8 Infra TEC GmbH
 - 10.8.1 Infra TEC GmbH Basic Information
 - 10.8.2 Infra TEC GmbH Thermopile Microbolometer Infrared Detector Product Overview
 - 10.8.3 Infra TEC GmbH Thermopile Microbolometer Infrared Detector Product Market Performance
 - 10.8.4 Infra TEC GmbH Business Overview
 - 10.8.5 Infra TEC GmbH Recent Developments
- 10.9 DRS
 - 10.9.1 DRS Basic Information
 - 10.9.2 DRS Thermopile Microbolometer Infrared Detector Product Overview
 - 10.9.3 DRS Thermopile Microbolometer Infrared Detector Product Market Performance
 - 10.9.4 DRS Business Overview
 - 10.9.5 DRS Recent Developments
- 10.10 Zhejiang Dali
 - 10.10.1 Zhejiang Dali Basic Information
 - 10.10.2 Zhejiang Dali Thermopile Microbolometer Infrared Detector Product Overview
 - 10.10.3 Zhejiang Dali Thermopile Microbolometer Infrared Detector Product Market Performance
 - 10.10.4 Zhejiang Dali Business Overview
 - 10.10.5 Zhejiang Dali Recent Developments
- 10.11 IRay Technology
 - 10.11.1 IRay Technology Basic Information
 - 10.11.2 IRay Technology Thermopile Microbolometer Infrared Detector Product Overview
 - 10.11.3 IRay Technology Thermopile Microbolometer Infrared Detector Product Market Performance
 - 10.11.4 IRay Technology Business Overview
 - 10.11.5 IRay Technology Recent Developments
- 10.12 North GuangWei
 - 10.12.1 North GuangWei Basic Information
 - 10.12.2 North GuangWei Thermopile Microbolometer Infrared Detector Product

Overview

- 10.12.3 North GuangWei Thermopile Microbolometer Infrared Detector Product Market Performance
- 10.12.4 North GuangWei Business Overview
- 10.12.5 North GuangWei Recent Developments

11 THERMOPILE MICROBOLOMETER INFRARED DETECTOR MARKET FORECAST BY REGION

- 11.1 Global Thermopile Microbolometer Infrared Detector Market Size Forecast
- 11.2 Global Thermopile Microbolometer Infrared Detector Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe Thermopile Microbolometer Infrared Detector Market Size Forecast by Country
 - 11.2.3 Asia Pacific Thermopile Microbolometer Infrared Detector Market Size Forecast by Region
 - 11.2.4 South America Thermopile Microbolometer Infrared Detector Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of Thermopile Microbolometer Infrared Detector by Country

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

- 12.1 Global Thermopile Microbolometer Infrared Detector Market Forecast by Type (2026-2035)
 - 12.1.1 Global Forecasted Sales of Thermopile Microbolometer Infrared Detector by Type (2026-2035)
 - 12.1.2 Global Thermopile Microbolometer Infrared Detector Market Size Forecast by Type (2026-2035)
 - 12.1.3 Global Forecasted Price of Thermopile Microbolometer Infrared Detector by Type (2026-2035)
- 12.2 Global Thermopile Microbolometer Infrared Detector Market Forecast by Application (2026-2035)
 - 12.2.1 Global Thermopile Microbolometer Infrared Detector Sales (K Units) Forecast by Application
 - 12.2.2 Global Thermopile Microbolometer Infrared Detector 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 Thermopile Microbolometer Infrared Detector Market Size by Type (M USD)

Table 4. Global Thermopile Microbolometer Infrared Detector Market Size by Application

Table 5. Thermopile Microbolometer Infrared Detector Market Size Comparison by Region (M USD)

Table 6. Global Thermopile Microbolometer Infrared Detector Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global Thermopile Microbolometer Infrared Detector Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Thermopile Microbolometer Infrared Detector Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Thermopile Microbolometer Infrared Detector Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Thermopile Microbolometer Infrared Detector as of 2025)

Table 11. Global Market Thermopile Microbolometer Infrared Detector Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Thermopile Microbolometer Infrared Detector 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. Thermopile Microbolometer Infrared Detector 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 Thermopile Microbolometer Infrared Detector Sales by Type (K Units)

Table 27. Global Thermopile Microbolometer Infrared Detector Market Size by Type (M USD)

Table 28. Global Thermopile Microbolometer Infrared Detector Sales (K Units) by Type (2020-2025)

Table 29. Global Thermopile Microbolometer Infrared Detector Sales Market Share by Type (2020-2025)

Table 30. Global Thermopile Microbolometer Infrared Detector Market Size (M USD) by Type (2020-2025)

Table 31. Global Thermopile Microbolometer Infrared Detector Market Share by Type (2020-2025)

Table 32. Global Thermopile Microbolometer Infrared Detector Price (USD/Unit) by Type (2020-2025)

Table 33. Global Thermopile Microbolometer Infrared Detector Sales (K Units) by Application

Table 34. Global Thermopile Microbolometer Infrared Detector Market Size by Application

Table 35. Global Thermopile Microbolometer Infrared Detector Sales by Application (2020-2025) & (K Units)

Table 36. Global Thermopile Microbolometer Infrared Detector Sales Market Share by Application (2020-2025)

Table 37. Global Thermopile Microbolometer Infrared Detector Market Size by Application (2020-2025) & (M USD)

Table 38. Global Thermopile Microbolometer Infrared Detector Market Share by Application (2020-2025)

Table 39. Global Thermopile Microbolometer Infrared Detector Sales Growth Rate by Application (2020-2025)

Table 40. Global Thermopile Microbolometer Infrared Detector Sales by Region (2020-2025) & (K Units)

Table 41. Global Thermopile Microbolometer Infrared Detector Sales Market Share by Region (2020-2025)

Table 42. Global Thermopile Microbolometer Infrared Detector Market Size by Region (2020-2025) & (M USD)

Table 43. Global Thermopile Microbolometer Infrared Detector Market Size by Region (2020-2025)

Table 44. North America Thermopile Microbolometer Infrared Detector Sales by Country (2020-2025) & (K Units)

Table 45. North America Thermopile Microbolometer Infrared Detector Market Size by

Country (2020-2025) & (M USD)

Table 46. Europe Thermopile Microbolometer Infrared Detector Sales by Country (2020-2025) & (K Units)

Table 47. Europe Thermopile Microbolometer Infrared Detector Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific Thermopile Microbolometer Infrared Detector Sales by Region (2020-2025) & (K Units)

Table 49. Asia Pacific Thermopile Microbolometer Infrared Detector Market Size by Region (2020-2025) & (M USD)

Table 50. South America Thermopile Microbolometer Infrared Detector Sales by Country (2020-2025) & (K Units)

Table 51. South America Thermopile Microbolometer Infrared Detector Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa Thermopile Microbolometer Infrared Detector Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa Thermopile Microbolometer Infrared Detector Market Size by Region (2020-2025) & (M USD)

Table 54. Global Thermopile Microbolometer Infrared Detector Production (K Units) by Region(2020-2025)

Table 55. Global Thermopile Microbolometer Infrared Detector Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Thermopile Microbolometer Infrared Detector Revenue Market Share by Region (2020-2025)

Table 57. Global Thermopile Microbolometer Infrared Detector Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Thermopile Microbolometer Infrared Detector Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Thermopile Microbolometer Infrared Detector Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Thermopile Microbolometer Infrared Detector Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Thermopile Microbolometer Infrared Detector Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. Excelitas Technologies Basic Information

Table 63. Excelitas Technologies Thermopile Microbolometer Infrared Detector Product Overview

Table 64. Excelitas Technologies Thermopile Microbolometer Infrared Detector Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Excelitas Technologies Business Overview

Table 66. Excelitas Technologies SWOT Analysis
Table 67. Excelitas Technologies Recent Developments
Table 68. Nippon Ceramic Basic Information
Table 69. Nippon Ceramic Thermopile Microbolometer Infrared Detector Product Overview
Table 70. Nippon Ceramic Thermopile Microbolometer Infrared Detector Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 71. Nippon Ceramic Business Overview
Table 72. Nippon Ceramic SWOT Analysis
Table 73. Nippon Ceramic Recent Developments
Table 74. Hamamatsu Photonic Basic Information
Table 75. Hamamatsu Photonic Thermopile Microbolometer Infrared Detector Product Overview
Table 76. Hamamatsu Photonic Thermopile Microbolometer Infrared Detector Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 77. Hamamatsu Photonic Business Overview
Table 78. Hamamatsu Photonic SWOT Analysis
Table 79. Hamamatsu Photonic Recent Developments
Table 80. Murata Manufacturing Basic Information
Table 81. Murata Manufacturing Thermopile Microbolometer Infrared Detector Product Overview
Table 82. Murata Manufacturing Thermopile Microbolometer Infrared Detector Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 83. Murata Manufacturing Business Overview
Table 84. Murata Manufacturing Recent Developments
Table 85. Flir Systems Basic Information
Table 86. Flir Systems Thermopile Microbolometer Infrared Detector Product Overview
Table 87. Flir Systems Thermopile Microbolometer Infrared Detector Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 88. Flir Systems Business Overview
Table 89. Flir Systems Recent Developments
Table 90. Texas Instruments Basic Information
Table 91. Texas Instruments Thermopile Microbolometer Infrared Detector Product Overview
Table 92. Texas Instruments Thermopile Microbolometer Infrared Detector Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 93. Texas Instruments Business Overview
Table 94. Texas Instruments Recent Developments
Table 95. Sofradir Basic Information

Table 96. Sofradir Thermopile Microbolometer Infrared Detector Product Overview

Table 97. Sofradir Thermopile Microbolometer Infrared Detector Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 98. Sofradir Business Overview

Table 99. Sofradir Recent Developments

Table 100. Infra TEC GmbH Basic Information

Table 101. Infra TEC GmbH Thermopile Microbolometer Infrared Detector Product Overview

Table 102. Infra TEC GmbH Thermopile Microbolometer Infrared Detector Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 103. Infra TEC GmbH Business Overview

Table 104. Infra TEC GmbH Recent Developments

Table 105. DRS Basic Information

Table 106. DRS Thermopile Microbolometer Infrared Detector Product Overview

Table 107. DRS Thermopile Microbolometer Infrared Detector Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 108. DRS Business Overview

Table 109. DRS Recent Developments

Table 110. Zhejiang Dali Basic Information

Table 111. Zhejiang Dali Thermopile Microbolometer Infrared Detector Product Overview

Table 112. Zhejiang Dali Thermopile Microbolometer Infrared Detector Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 113. Zhejiang Dali Business Overview

Table 114. Zhejiang Dali Recent Developments

Table 115. IRay Technology Basic Information

Table 116. IRay Technology Thermopile Microbolometer Infrared Detector Product Overview

Table 117. IRay Technology Thermopile Microbolometer Infrared Detector Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 118. IRay Technology Business Overview

Table 119. IRay Technology Recent Developments

Table 120. North GuangWei Basic Information

Table 121. North GuangWei Thermopile Microbolometer Infrared Detector Product Overview

Table 122. North GuangWei Thermopile Microbolometer Infrared Detector Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 123. North GuangWei Business Overview

Table 124. North GuangWei Recent Developments

Table 125. Global Thermopile Microbolometer Infrared Detector Sales Forecast by Region (2026-2035) & (K Units)

Table 126. Global Thermopile Microbolometer Infrared Detector Market Size Forecast by Region (2026-2035) & (M USD)

Table 127. North America Thermopile Microbolometer Infrared Detector Sales Forecast by Country (2026-2035) & (K Units)

Table 128. North America Thermopile Microbolometer Infrared Detector Market Size Forecast by Country (2026-2035) & (M USD)

Table 129. Europe Thermopile Microbolometer Infrared Detector Sales Forecast by Country (2026-2035) & (K Units)

Table 130. Europe Thermopile Microbolometer Infrared Detector Market Size Forecast by Country (2026-2035) & (M USD)

Table 131. Asia Pacific Thermopile Microbolometer Infrared Detector Sales Forecast by Region (2026-2035) & (K Units)

Table 132. Asia Pacific Thermopile Microbolometer Infrared Detector Market Size Forecast by Region (2026-2035) & (M USD)

Table 133. South America Thermopile Microbolometer Infrared Detector Sales Forecast by Country (2026-2035) & (K Units)

Table 134. South America Thermopile Microbolometer Infrared Detector Market Size Forecast by Country (2026-2035) & (M USD)

Table 135. Middle East and Africa Thermopile Microbolometer Infrared Detector Sales Forecast by Country (2026-2035) & (Units)

Table 136. Middle East and Africa Thermopile Microbolometer Infrared Detector Market Size Forecast by Country (2026-2035) & (M USD)

Table 137. Global Thermopile Microbolometer Infrared Detector Sales Forecast by Type (2026-2035) & (K Units)

Table 138. Global Thermopile Microbolometer Infrared Detector Market Size Forecast by Type (2026-2035) & (M USD)

Table 139. Global Thermopile Microbolometer Infrared Detector Price Forecast by Type (2026-2035) & (USD/Unit)

Table 140. Global Thermopile Microbolometer Infrared Detector Sales (K Units) Forecast by Application (2026-2035)

Table 141. Global Thermopile Microbolometer Infrared Detector Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

Figure 1. Product Picture of Thermopile Microbolometer Infrared Detector

Figure 2. Data Triangulation

Figure 3. Key Caveats

Figure 4. Global Thermopile Microbolometer Infrared Detector Market Size (M USD), 2025-2035

Figure 5. Global Thermopile Microbolometer Infrared Detector Market Size (M USD) (2020-2035)

Figure 6. Global Thermopile Microbolometer Infrared Detector 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. Thermopile Microbolometer Infrared Detector Market Size by Country (M USD)

Figure 11. Company Assessment Quadrant

Figure 12. Global Thermopile Microbolometer Infrared Detector Product Life Cycle

Figure 13. Thermopile Microbolometer Infrared Detector Sales Share by Manufacturers in 2025

Figure 14. Global Thermopile Microbolometer Infrared Detector Revenue Share by Manufacturers in 2025

Figure 15. Thermopile Microbolometer Infrared Detector Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025

Figure 16. Global Market Thermopile Microbolometer Infrared Detector Average Price (USD/Unit) of Key Manufacturers in 2025

Figure 17. The Global 5 and 10 Largest Players: Market Share by Thermopile Microbolometer Infrared Detector Revenue in 2025

Figure 18. Industry Chain Map of Thermopile Microbolometer Infrared Detector

Figure 19. Global Thermopile Microbolometer Infrared Detector Market PEST Analysis

Figure 20. Global Thermopile Microbolometer Infrared Detector 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 Thermopile Microbolometer Infrared Detector Market Share by Type

Figure 27. Sales Market Share of Thermopile Microbolometer Infrared Detector by Type (2020-2025)

Figure 28. Sales Market Share of Thermopile Microbolometer Infrared Detector by Type in 2025

Figure 29. Market Share of Thermopile Microbolometer Infrared Detector by Type (2020-2025)

Figure 30. Market Share of Thermopile Microbolometer Infrared Detector by Type in 2025

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

Figure 32. Global Thermopile Microbolometer Infrared Detector Market Share by Application

Figure 33. Global Thermopile Microbolometer Infrared Detector Sales Market Share by Application (2020-2025)

Figure 34. Global Thermopile Microbolometer Infrared Detector Sales Market Share by Application in 2025

Figure 35. Global Thermopile Microbolometer Infrared Detector Market Share by Application (2020-2025)

Figure 36. Global Thermopile Microbolometer Infrared Detector Market Share by Application in 2025

Figure 37. Global Thermopile Microbolometer Infrared Detector Sales Growth Rate by Application (2020-2025)

Figure 38. Global Thermopile Microbolometer Infrared Detector Sales Market Share by Region (2020-2025)

Figure 39. Global Thermopile Microbolometer Infrared Detector Market Size by Region (2020-2025)

Figure 40. North America Thermopile Microbolometer Infrared Detector Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Thermopile Microbolometer Infrared Detector Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Thermopile Microbolometer Infrared Detector Sales Market Share by Country in 2024

Figure 43. North America Thermopile Microbolometer Infrared Detector Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Thermopile Microbolometer Infrared Detector Market Size by Country in 2024

Figure 45. U.S. Thermopile Microbolometer Infrared Detector Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Thermopile Microbolometer Infrared Detector Market Size and Growth

Rate (2020-2025) & (M USD)

Figure 47. Canada Thermopile Microbolometer Infrared Detector Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Thermopile Microbolometer Infrared Detector Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Thermopile Microbolometer Infrared Detector Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Thermopile Microbolometer Infrared Detector Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Thermopile Microbolometer Infrared Detector Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Thermopile Microbolometer Infrared Detector Sales Market Share by Country in 2024

Figure 53. Europe Thermopile Microbolometer Infrared Detector Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Thermopile Microbolometer Infrared Detector Market Size by Country in 2024

Figure 55. Germany Thermopile Microbolometer Infrared Detector Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Thermopile Microbolometer Infrared Detector Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Thermopile Microbolometer Infrared Detector Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Thermopile Microbolometer Infrared Detector Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Thermopile Microbolometer Infrared Detector Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Thermopile Microbolometer Infrared Detector Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Thermopile Microbolometer Infrared Detector Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Thermopile Microbolometer Infrared Detector Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Thermopile Microbolometer Infrared Detector Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Thermopile Microbolometer Infrared Detector Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Thermopile Microbolometer Infrared Detector Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Thermopile Microbolometer Infrared Detector Sales Market Share by Region in 2024

Figure 67. Asia Pacific Thermopile Microbolometer Infrared Detector Market Size by Region in 2024

Figure 68. China Thermopile Microbolometer Infrared Detector Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Thermopile Microbolometer Infrared Detector Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Thermopile Microbolometer Infrared Detector Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Thermopile Microbolometer Infrared Detector Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Thermopile Microbolometer Infrared Detector Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Thermopile Microbolometer Infrared Detector Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Thermopile Microbolometer Infrared Detector Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Thermopile Microbolometer Infrared Detector Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Thermopile Microbolometer Infrared Detector Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Thermopile Microbolometer Infrared Detector Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Thermopile Microbolometer Infrared Detector Sales and Growth Rate (K Units)

Figure 79. South America Thermopile Microbolometer Infrared Detector Sales Market Share by Country in 2024

Figure 80. South America Thermopile Microbolometer Infrared Detector Market Size and Growth Rate (M USD)

Figure 81. South America Thermopile Microbolometer Infrared Detector Market Size by Country in 2024

Figure 82. Brazil Thermopile Microbolometer Infrared Detector Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Thermopile Microbolometer Infrared Detector Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Thermopile Microbolometer Infrared Detector Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Thermopile Microbolometer Infrared Detector Market Size and

Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Thermopile Microbolometer Infrared Detector Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Thermopile Microbolometer Infrared Detector Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Thermopile Microbolometer Infrared Detector Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Thermopile Microbolometer Infrared Detector Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Thermopile Microbolometer Infrared Detector Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Thermopile Microbolometer Infrared Detector Market Size by Region in 2024

Figure 92. Saudi Arabia Thermopile Microbolometer Infrared Detector Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Thermopile Microbolometer Infrared Detector Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Thermopile Microbolometer Infrared Detector Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Thermopile Microbolometer Infrared Detector Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Thermopile Microbolometer Infrared Detector Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Thermopile Microbolometer Infrared Detector Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Thermopile Microbolometer Infrared Detector Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Thermopile Microbolometer Infrared Detector Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Thermopile Microbolometer Infrared Detector Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Thermopile Microbolometer Infrared Detector Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Thermopile Microbolometer Infrared Detector Production Market Share by Region (2020-2025)

Figure 103. North America Thermopile Microbolometer Infrared Detector Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Thermopile Microbolometer Infrared Detector Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Thermopile Microbolometer Infrared Detector Production (K Units) Growth Rate (2020-2025)

Figure 106. China Thermopile Microbolometer Infrared Detector Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Thermopile Microbolometer Infrared Detector Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Thermopile Microbolometer Infrared Detector Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Thermopile Microbolometer Infrared Detector Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Thermopile Microbolometer Infrared Detector Market Share Forecast by Type (2026-2035)

Figure 111. Global Thermopile Microbolometer Infrared Detector Sales Forecast by Application (2026-2035)

Figure 112. Global Thermopile Microbolometer Infrared Detector Market Share Forecast by Application (2026-2035)

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