

Global Thermal Ir Sensors Market Research Report 2025(Status and Outlook)

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Abstracts

Report Overview

Thermal infrared (IR) sensors are devices that detect and measure infrared radiation emitted by objects, converting it into electrical signals to create temperature profiles or images without direct contact. These sensors operate within the mid-wave (MWIR) and long-wave (LWIR) infrared spectra, typically between 3-14 micrometers, making them ideal for applications requiring non-invasive temperature monitoring, such as industrial automation, medical diagnostics, security surveillance, and automotive night vision. Key technologies include uncooled microbolometers, which are cost-effective and widely used in consumer and commercial applications, and cooled photon detectors like mercury cadmium telluride (MCT) sensors, which offer higher sensitivity for military and scientific use. The market is driven by increasing demand for thermal imaging in smart home systems, predictive maintenance in manufacturing, and advancements in autonomous vehicles, though challenges like high costs for high-resolution sensors and competition from alternative technologies (e.g., LiDAR) persist. Geographically, North America and Asia-Pacific dominate due to defense spending and industrial adoption, while innovations in miniaturization and AI integration are expanding opportunities in healthcare and IoT. Regulatory standards for accuracy and safety, particularly in medical and aerospace sectors, further shape product development and commercialization.

The global Thermal Ir Sensors market size was estimated at USD 500.8 million in 2024 and is projected to grow at a compound annual growth rate (CAGR) of 7.50% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Thermal Ir

Sensors 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 Thermal Ir Sensors 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 Thermal Ir Sensors market.

Global Thermal Ir Sensors 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

Honeywell
Excelitas
Heimann

Sunshine Technologies
Melexis
Amphenol
Murata Manufacturing
L-3 Communications
Texas Instruments
Nippon Avionics
TE Connectivity
Market Segmentation (by Type)
Photon Detection
Thermal Detection
Market Segmentation (by Application)
Consumer Electronics
Chemicals
Aerospace & Defense
Oil & Gas
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 Thermal Ir Sensors Market
Overview of the regional outlook of the Thermal Ir Sensors Market:

Customization of the Report

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

Chapter Outline

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

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Thermal Ir Sensors 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 Thermal Ir Sensors, their output

value, profit level, regional supply, production capacity layout, etc. from the supply side.

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

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

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

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

Key Reasons to Buy this Report:

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

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

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

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

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

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

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

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

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

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

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

Provides insight into the market through Value Chain

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

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Thermal Ir Sensors
- 1.2 Key Market Segments
 - 1.2.1 Thermal Ir Sensors Segment by Type
 - 1.2.2 Thermal Ir Sensors 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 THERMAL IR SENSORS MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Thermal Ir Sensors Market Size (M USD) Estimates and Forecasts (2020-2033)
 - 2.1.2 Global Thermal Ir Sensors Sales Estimates and Forecasts (2020-2033)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 THERMAL IR SENSORS MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Thermal Ir Sensors Product Life Cycle
- 3.3 Global Thermal Ir Sensors Sales by Manufacturers (2020-2025)
- 3.4 Global Thermal Ir Sensors Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Thermal Ir Sensors Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Thermal Ir Sensors Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Thermal Ir Sensors Market Competitive Situation and Trends
 - 3.8.1 Thermal Ir Sensors Market Concentration Rate
 - 3.8.2 Global 5 and 10 Largest Thermal Ir Sensors Players Market Share by Revenue
 - 3.8.3 Mergers & Acquisitions, Expansion

4 THERMAL IR SENSORS INDUSTRY CHAIN ANALYSIS

- 4.1 Thermal Ir Sensors 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 THERMAL IR SENSORS 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 Thermal Ir Sensors 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 Thermal Ir Sensors Market
- 5.7 ESG Ratings of Leading Companies

6 THERMAL IR SENSORS MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Thermal Ir Sensors Sales Market Share by Type (2020-2025)
- 6.3 Global Thermal Ir Sensors Market Size Market Share by Type (2020-2025)
- 6.4 Global Thermal Ir Sensors Price by Type (2020-2025)

7 THERMAL IR SENSORS MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Thermal Ir Sensors Market Sales by Application (2020-2025)
- 7.3 Global Thermal Ir Sensors Market Size (M USD) by Application (2020-2025)

7.4 Global Thermal Ir Sensors Sales Growth Rate by Application (2020-2025)

8 THERMAL IR SENSORS MARKET SALES BY REGION

8.1 Global Thermal Ir Sensors Sales by Region

8.1.1 Global Thermal Ir Sensors Sales by Region

8.1.2 Global Thermal Ir Sensors Sales Market Share by Region

8.2 Global Thermal Ir Sensors Market Size by Region

8.2.1 Global Thermal Ir Sensors Market Size by Region

8.2.2 Global Thermal Ir Sensors Market Size Market Share by Region

8.3 North America

8.3.1 North America Thermal Ir Sensors Sales by Country

8.3.2 North America Thermal Ir Sensors 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 Thermal Ir Sensors Sales by Country

8.4.2 Europe Thermal Ir Sensors 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 Thermal Ir Sensors Sales by Region

8.5.2 Asia Pacific Thermal Ir Sensors 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 Thermal Ir Sensors Sales by Country

8.6.2 South America Thermal Ir Sensors 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 Thermal Ir Sensors Sales by Region
- 8.7.2 Middle East and Africa Thermal Ir Sensors 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 THERMAL IR SENSORS MARKET PRODUCTION BY REGION

- 9.1 Global Production of Thermal Ir Sensors by Region(2020-2025)
- 9.2 Global Thermal Ir Sensors Revenue Market Share by Region (2020-2025)
- 9.3 Global Thermal Ir Sensors Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Thermal Ir Sensors Production
 - 9.4.1 North America Thermal Ir Sensors Production Growth Rate (2020-2025)
 - 9.4.2 North America Thermal Ir Sensors Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Thermal Ir Sensors Production
 - 9.5.1 Europe Thermal Ir Sensors Production Growth Rate (2020-2025)
 - 9.5.2 Europe Thermal Ir Sensors Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Thermal Ir Sensors Production (2020-2025)
 - 9.6.1 Japan Thermal Ir Sensors Production Growth Rate (2020-2025)
 - 9.6.2 Japan Thermal Ir Sensors Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Thermal Ir Sensors Production (2020-2025)
 - 9.7.1 China Thermal Ir Sensors Production Growth Rate (2020-2025)
 - 9.7.2 China Thermal Ir Sensors Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

- 10.1 Honeywell
 - 10.1.1 Honeywell Basic Information
 - 10.1.2 Honeywell Thermal Ir Sensors Product Overview
 - 10.1.3 Honeywell Thermal Ir Sensors Product Market Performance
 - 10.1.4 Honeywell Business Overview
 - 10.1.5 Honeywell SWOT Analysis

- 10.1.6 Honeywell Recent Developments
- 10.2 Excelitas
 - 10.2.1 Excelitas Basic Information
 - 10.2.2 Excelitas Thermal Ir Sensors Product Overview
 - 10.2.3 Excelitas Thermal Ir Sensors Product Market Performance
 - 10.2.4 Excelitas Business Overview
 - 10.2.5 Excelitas SWOT Analysis
 - 10.2.6 Excelitas Recent Developments
- 10.3 Heimann
 - 10.3.1 Heimann Basic Information
 - 10.3.2 Heimann Thermal Ir Sensors Product Overview
 - 10.3.3 Heimann Thermal Ir Sensors Product Market Performance
 - 10.3.4 Heimann Business Overview
 - 10.3.5 Heimann SWOT Analysis
 - 10.3.6 Heimann Recent Developments
- 10.4 Sunshine Technologies
 - 10.4.1 Sunshine Technologies Basic Information
 - 10.4.2 Sunshine Technologies Thermal Ir Sensors Product Overview
 - 10.4.3 Sunshine Technologies Thermal Ir Sensors Product Market Performance
 - 10.4.4 Sunshine Technologies Business Overview
 - 10.4.5 Sunshine Technologies Recent Developments
- 10.5 Melexis
 - 10.5.1 Melexis Basic Information
 - 10.5.2 Melexis Thermal Ir Sensors Product Overview
 - 10.5.3 Melexis Thermal Ir Sensors Product Market Performance
 - 10.5.4 Melexis Business Overview
 - 10.5.5 Melexis Recent Developments
- 10.6 Amphenol
 - 10.6.1 Amphenol Basic Information
 - 10.6.2 Amphenol Thermal Ir Sensors Product Overview
 - 10.6.3 Amphenol Thermal Ir Sensors Product Market Performance
 - 10.6.4 Amphenol Business Overview
 - 10.6.5 Amphenol Recent Developments
- 10.7 Murata Manufacturing
 - 10.7.1 Murata Manufacturing Basic Information
 - 10.7.2 Murata Manufacturing Thermal Ir Sensors Product Overview
 - 10.7.3 Murata Manufacturing Thermal Ir Sensors Product Market Performance
 - 10.7.4 Murata Manufacturing Business Overview
 - 10.7.5 Murata Manufacturing Recent Developments

10.8 L-3 Communications

10.8.1 L-3 Communications Basic Information

10.8.2 L-3 Communications Thermal Ir Sensors Product Overview

10.8.3 L-3 Communications Thermal Ir Sensors Product Market Performance

10.8.4 L-3 Communications Business Overview

10.8.5 L-3 Communications Recent Developments

10.9 Texas Instruments

10.9.1 Texas Instruments Basic Information

10.9.2 Texas Instruments Thermal Ir Sensors Product Overview

10.9.3 Texas Instruments Thermal Ir Sensors Product Market Performance

10.9.4 Texas Instruments Business Overview

10.9.5 Texas Instruments Recent Developments

10.10 Nippon Avionics

10.10.1 Nippon Avionics Basic Information

10.10.2 Nippon Avionics Thermal Ir Sensors Product Overview

10.10.3 Nippon Avionics Thermal Ir Sensors Product Market Performance

10.10.4 Nippon Avionics Business Overview

10.10.5 Nippon Avionics Recent Developments

10.11 TE Connectivity

10.11.1 TE Connectivity Basic Information

10.11.2 TE Connectivity Thermal Ir Sensors Product Overview

10.11.3 TE Connectivity Thermal Ir Sensors Product Market Performance

10.11.4 TE Connectivity Business Overview

10.11.5 TE Connectivity Recent Developments

11 THERMAL IR SENSORS MARKET FORECAST BY REGION

11.1 Global Thermal Ir Sensors Market Size Forecast

11.2 Global Thermal Ir Sensors Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Thermal Ir Sensors Market Size Forecast by Country

11.2.3 Asia Pacific Thermal Ir Sensors Market Size Forecast by Region

11.2.4 South America Thermal Ir Sensors Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Thermal Ir Sensors by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2033)

12.1 Global Thermal Ir Sensors Market Forecast by Type (2026-2033)

12.1.1 Global Forecasted Sales of Thermal Ir Sensors by Type (2026-2033)

12.1.2 Global Thermal Ir Sensors Market Size Forecast by Type (2026-2033)

12.1.3 Global Forecasted Price of Thermal Ir Sensors by Type (2026-2033)

12.2 Global Thermal Ir Sensors Market Forecast by Application (2026-2033)

12.2.1 Global Thermal Ir Sensors Sales (K Units) Forecast by Application

12.2.2 Global Thermal Ir Sensors Market Size (M USD) Forecast by Application
(2026-2033)

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. Market Size (M USD) Segment Executive Summary
Table 4. Thermal Ir Sensors Market Size Comparison by Region (M USD)
Table 5. Global Thermal Ir Sensors Sales (K Units) by Manufacturers (2020-2025)
Table 6. Global Thermal Ir Sensors Sales Market Share by Manufacturers (2020-2025)
Table 7. Global Thermal Ir Sensors Revenue (M USD) by Manufacturers (2020-2025)
Table 8. Global Thermal Ir Sensors Revenue Share by Manufacturers (2020-2025)
Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Thermal Ir Sensors as of 2024)
Table 10. Global Market Thermal Ir Sensors Average Price (USD/Unit) of Key Manufacturers (2020-2025)
Table 11. Manufacturers? Manufacturing Sites, Areas Served
Table 12. Manufacturers? Product Type
Table 13. Global Thermal Ir Sensors Manufacturers Market Concentration Ratio (CR5 and HHI)
Table 14. Mergers & Acquisitions, Expansion Plans
Table 15. Market Overview of Key Raw Materials
Table 16. Midstream Market Analysis
Table 17. Downstream Customer Analysis
Table 18. Key Development Trends
Table 19. Driving Factors
Table 20. Thermal Ir Sensors Market Challenges
Table 21. Goldman Sachs' forecast real GDP growth rate for 2024-2026
Table 22. S&P Global ' Forecast Real GDP Growth Rate For 2024-2027
Table 23. World Bank ' Forecast Real GDP Growth Rate For 2024-2026
Table 24. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries
Table 25. Global Thermal Ir Sensors Sales by Type (K Units)
Table 26. Global Thermal Ir Sensors Market Size by Type (M USD)
Table 27. Global Thermal Ir Sensors Sales (K Units) by Type (2020-2025)
Table 28. Global Thermal Ir Sensors Sales Market Share by Type (2020-2025)
Table 29. Global Thermal Ir Sensors Market Size (M USD) by Type (2020-2025)
Table 30. Global Thermal Ir Sensors Market Size Share by Type (2020-2025)
Table 31. Global Thermal Ir Sensors Price (USD/Unit) by Type (2020-2025)

Table 32. Global Thermal Ir Sensors Sales (K Units) by Application
Table 33. Global Thermal Ir Sensors Market Size by Application
Table 34. Global Thermal Ir Sensors Sales by Application (2020-2025) & (K Units)
Table 35. Global Thermal Ir Sensors Sales Market Share by Application (2020-2025)
Table 36. Global Thermal Ir Sensors Market Size by Application (2020-2025) & (M USD)
Table 37. Global Thermal Ir Sensors Market Share by Application (2020-2025)
Table 38. Global Thermal Ir Sensors Sales Growth Rate by Application (2020-2025)
Table 39. Global Thermal Ir Sensors Sales by Region (2020-2025) & (K Units)
Table 40. Global Thermal Ir Sensors Sales Market Share by Region (2020-2025)
Table 41. Global Thermal Ir Sensors Market Size by Region (2020-2025) & (M USD)
Table 42. Global Thermal Ir Sensors Market Size Market Share by Region (2020-2025)
Table 43. North America Thermal Ir Sensors Sales by Country (2020-2025) & (K Units)
Table 44. North America Thermal Ir Sensors Market Size by Country (2020-2025) & (M USD)
Table 45. Europe Thermal Ir Sensors Sales by Country (2020-2025) & (K Units)
Table 46. Europe Thermal Ir Sensors Market Size by Country (2020-2025) & (M USD)
Table 47. Asia Pacific Thermal Ir Sensors Sales by Region (2020-2025) & (K Units)
Table 48. Asia Pacific Thermal Ir Sensors Market Size by Region (2020-2025) & (M USD)
Table 49. South America Thermal Ir Sensors Sales by Country (2020-2025) & (K Units)
Table 50. South America Thermal Ir Sensors Market Size by Country (2020-2025) & (M USD)
Table 51. Middle East and Africa Thermal Ir Sensors Sales by Region (2020-2025) & (K Units)
Table 52. Middle East and Africa Thermal Ir Sensors Market Size by Region (2020-2025) & (M USD)
Table 53. Global Thermal Ir Sensors Production (K Units) by Region(2020-2025)
Table 54. Global Thermal Ir Sensors Revenue (US\$ Million) by Region (2020-2025)
Table 55. Global Thermal Ir Sensors Revenue Market Share by Region (2020-2025)
Table 56. Global Thermal Ir Sensors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 57. North America Thermal Ir Sensors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 58. Europe Thermal Ir Sensors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 59. Japan Thermal Ir Sensors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 60. China Thermal Ir Sensors Production (K Units), Revenue (US\$ Million), Price

(USD/Unit) and Gross Margin (2020-2025)

Table 61. Honeywell Basic Information

Table 62. Honeywell Thermal Ir Sensors Product Overview

Table 63. Honeywell Thermal Ir Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 64. Honeywell Business Overview

Table 65. Honeywell SWOT Analysis

Table 66. Honeywell Recent Developments

Table 67. Excelitas Basic Information

Table 68. Excelitas Thermal Ir Sensors Product Overview

Table 69. Excelitas Thermal Ir Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 70. Excelitas Business Overview

Table 71. Excelitas SWOT Analysis

Table 72. Excelitas Recent Developments

Table 73. Heimann Basic Information

Table 74. Heimann Thermal Ir Sensors Product Overview

Table 75. Heimann Thermal Ir Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 76. Heimann Business Overview

Table 77. Heimann SWOT Analysis

Table 78. Heimann Recent Developments

Table 79. Sunshine Technologies Basic Information

Table 80. Sunshine Technologies Thermal Ir Sensors Product Overview

Table 81. Sunshine Technologies Thermal Ir Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 82. Sunshine Technologies Business Overview

Table 83. Sunshine Technologies Recent Developments

Table 84. Melexis Basic Information

Table 85. Melexis Thermal Ir Sensors Product Overview

Table 86. Melexis Thermal Ir Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 87. Melexis Business Overview

Table 88. Melexis Recent Developments

Table 89. Amphenol Basic Information

Table 90. Amphenol Thermal Ir Sensors Product Overview

Table 91. Amphenol Thermal Ir Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 92. Amphenol Business Overview

Table 93. Amphemol Recent Developments
Table 94. Murata Manufacturing Basic Information
Table 95. Murata Manufacturing Thermal Ir Sensors Product Overview
Table 96. Murata Manufacturing Thermal Ir Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 97. Murata Manufacturing Business Overview
Table 98. Murata Manufacturing Recent Developments
Table 99. L-3 Communications Basic Information
Table 100. L-3 Communications Thermal Ir Sensors Product Overview
Table 101. L-3 Communications Thermal Ir Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 102. L-3 Communications Business Overview
Table 103. L-3 Communications Recent Developments
Table 104. Texas Instruments Basic Information
Table 105. Texas Instruments Thermal Ir Sensors Product Overview
Table 106. Texas Instruments Thermal Ir Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 107. Texas Instruments Business Overview
Table 108. Texas Instruments Recent Developments
Table 109. Nippon Avionics Basic Information
Table 110. Nippon Avionics Thermal Ir Sensors Product Overview
Table 111. Nippon Avionics Thermal Ir Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 112. Nippon Avionics Business Overview
Table 113. Nippon Avionics Recent Developments
Table 114. TE Connectivity Basic Information
Table 115. TE Connectivity Thermal Ir Sensors Product Overview
Table 116. TE Connectivity Thermal Ir Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 117. TE Connectivity Business Overview
Table 118. TE Connectivity Recent Developments
Table 119. Global Thermal Ir Sensors Sales Forecast by Region (2026-2033) & (K Units)
Table 120. Global Thermal Ir Sensors Market Size Forecast by Region (2026-2033) & (M USD)
Table 121. North America Thermal Ir Sensors Sales Forecast by Country (2026-2033) & (K Units)
Table 122. North America Thermal Ir Sensors Market Size Forecast by Country (2026-2033) & (M USD)

Table 123. Europe Thermal Ir Sensors Sales Forecast by Country (2026-2033) & (K Units)

Table 124. Europe Thermal Ir Sensors Market Size Forecast by Country (2026-2033) & (M USD)

Table 125. Asia Pacific Thermal Ir Sensors Sales Forecast by Region (2026-2033) & (K Units)

Table 126. Asia Pacific Thermal Ir Sensors Market Size Forecast by Region (2026-2033) & (M USD)

Table 127. South America Thermal Ir Sensors Sales Forecast by Country (2026-2033) & (K Units)

Table 128. South America Thermal Ir Sensors Market Size Forecast by Country (2026-2033) & (M USD)

Table 129. Middle East and Africa Thermal Ir Sensors Sales Forecast by Country (2026-2033) & (Units)

Table 130. Middle East and Africa Thermal Ir Sensors Market Size Forecast by Country (2026-2033) & (M USD)

Table 131. Global Thermal Ir Sensors Sales Forecast by Type (2026-2033) & (K Units)

Table 132. Global Thermal Ir Sensors Market Size Forecast by Type (2026-2033) & (M USD)

Table 133. Global Thermal Ir Sensors Price Forecast by Type (2026-2033) & (USD/Unit)

Table 134. Global Thermal Ir Sensors Sales (K Units) Forecast by Application (2026-2033)

Table 135. Global Thermal Ir Sensors Market Size Forecast by Application (2026-2033) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Thermal Ir Sensors
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Thermal Ir Sensors Market Size (M USD), 2024-2033
- Figure 5. Global Thermal Ir Sensors Market Size (M USD) (2020-2033)
- Figure 6. Global Thermal Ir Sensors Sales (K Units) & (2020-2033)
- 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. Thermal Ir Sensors Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Thermal Ir Sensors Product Life Cycle
- Figure 13. Thermal Ir Sensors Sales Share by Manufacturers in 2024
- Figure 14. Global Thermal Ir Sensors Revenue Share by Manufacturers in 2024
- Figure 15. Thermal Ir Sensors Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2024
- Figure 16. Global Market Thermal Ir Sensors Average Price (USD/Unit) of Key Manufacturers in 2024
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Thermal Ir Sensors Revenue in 2024
- Figure 18. Industry Chain Map of Thermal Ir Sensors
- Figure 19. Global Thermal Ir Sensors Market PEST Analysis
- Figure 20. Global Thermal Ir Sensors 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 Thermal Ir Sensors Market Share by Type
- Figure 27. Sales Market Share of Thermal Ir Sensors by Type (2020-2025)
- Figure 28. Sales Market Share of Thermal Ir Sensors by Type in 2024
- Figure 29. Market Size Share of Thermal Ir Sensors by Type (2020-2025)
- Figure 30. Market Size Share of Thermal Ir Sensors by Type in 2024
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Thermal Ir Sensors Market Share by Application

Figure 33. Global Thermal Ir Sensors Sales Market Share by Application (2020-2025)

Figure 34. Global Thermal Ir Sensors Sales Market Share by Application in 2024

Figure 35. Global Thermal Ir Sensors Market Share by Application (2020-2025)

Figure 36. Global Thermal Ir Sensors Market Share by Application in 2024

Figure 37. Global Thermal Ir Sensors Sales Growth Rate by Application (2020-2025)

Figure 38. Global Thermal Ir Sensors Sales Market Share by Region (2020-2025)

Figure 39. Global Thermal Ir Sensors Market Size Market Share by Region (2020-2025)

Figure 40. North America Thermal Ir Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Thermal Ir Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Thermal Ir Sensors Sales Market Share by Country in 2024

Figure 43. North America Thermal Ir Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Thermal Ir Sensors Market Size Market Share by Country in 2024

Figure 45. U.S. Thermal Ir Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Thermal Ir Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Thermal Ir Sensors Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Thermal Ir Sensors Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Thermal Ir Sensors Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Thermal Ir Sensors Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Thermal Ir Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Thermal Ir Sensors Sales Market Share by Country in 2024

Figure 53. Europe Thermal Ir Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Thermal Ir Sensors Market Size Market Share by Country in 2024

Figure 55. Germany Thermal Ir Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Thermal Ir Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Thermal Ir Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Thermal Ir Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Thermal Ir Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Thermal Ir Sensors Market Size and Growth Rate (2020-2025) & (M

USD)

Figure 61. Italy Thermal Ir Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Thermal Ir Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Thermal Ir Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Thermal Ir Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Thermal Ir Sensors Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Thermal Ir Sensors Sales Market Share by Region in 2024

Figure 67. Asia Pacific Thermal Ir Sensors Market Size Market Share by Region in 2024

Figure 68. China Thermal Ir Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Thermal Ir Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Thermal Ir Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Thermal Ir Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Thermal Ir Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Thermal Ir Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Thermal Ir Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Thermal Ir Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Thermal Ir Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Thermal Ir Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Thermal Ir Sensors Sales and Growth Rate (K Units)

Figure 79. South America Thermal Ir Sensors Sales Market Share by Country in 2024

Figure 80. South America Thermal Ir Sensors Market Size and Growth Rate (M USD)

Figure 81. South America Thermal Ir Sensors Market Size Market Share by Country in 2024

Figure 82. Brazil Thermal Ir Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Thermal Ir Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Thermal Ir Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Thermal Ir Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Thermal Ir Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Thermal Ir Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Thermal Ir Sensors Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Thermal Ir Sensors Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Thermal Ir Sensors Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Thermal Ir Sensors Market Size Market Share by Region in 2024

Figure 92. Saudi Arabia Thermal Ir Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Thermal Ir Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Thermal Ir Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Thermal Ir Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Thermal Ir Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Thermal Ir Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Thermal Ir Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Thermal Ir Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Thermal Ir Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Thermal Ir Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Thermal Ir Sensors Production Market Share by Region (2020-2025)

Figure 103. North America Thermal Ir Sensors Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Thermal Ir Sensors Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Thermal Ir Sensors Production (K Units) Growth Rate (2020-2025)

Figure 106. China Thermal Ir Sensors Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Thermal Ir Sensors Sales Forecast by Volume (2020-2033) & (K Units)

Figure 108. Global Thermal Ir Sensors Market Size Forecast by Value (2020-2033) & (M USD)

Figure 109. Global Thermal Ir Sensors Sales Market Share Forecast by Type

(2026-2033)

Figure 110. Global Thermal Ir Sensors Market Share Forecast by Type (2026-2033)

Figure 111. Global Thermal Ir Sensors Sales Forecast by Application (2026-2033)

Figure 112. Global Thermal Ir Sensors Market Share Forecast by Application
(2026-2033)

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