

Global Thermal Emitters Market Growth 2026-2032

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Abstracts

The global Thermal Emitters market size is predicted to grow from US\$ 2343 million in 2025 to US\$ 4420 million in 2032; it is expected to grow at a CAGR of 9.5% from 2026 to 2032.

In 2025, global thermal emitter production reached approximately 53 million units against an installed capacity of about 65 million units, with average selling prices around USD 45 per unit and industry gross margins near 42%. Thermal emitters are engineered materials or devices that convert heat into controlled infrared radiation, used in applications such as industrial heating, gas sensing, spectroscopy, medical therapy, infrared calibration, and passive radiative cooling; they range from ceramic and metal filament emitters to MEMS-based micro-IR sources and photonic-structured selective emitters that tailor wavelength and emissivity. The supply chain begins upstream with specialty materials (alumina, silicon carbide, nichrome alloys, doped semiconductors, and photonic coatings), wafer substrates, and high-temperature ceramics; midstream manufacturers design and fabricate the emitters via sintering, thin-film deposition, micromachining, or coil forming, often integrating temperature sensors and packaging for thermal stability; downstream, these components are embedded by OEMs into gas analyzers, NDIR sensors, infrared heaters, medical devices, environmental monitors, and smart-building systems, then distributed through industrial equipment makers and instrumentation brands to end users in manufacturing, healthcare, energy, and scientific research.

United States market for Thermal Emitters is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Thermal Emitters is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Thermal Emitters is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Thermal Emitters players cover Infrasonid, Excelitas Technologies, HawkEye Technologies, Axetris, Honeywell, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Thermal Emitters Industry Forecast" looks at past sales and reviews total world Thermal Emitters sales in 2025, providing a comprehensive analysis by region and market sector of projected Thermal Emitters sales for 2026 through 2032. With Thermal Emitters sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Thermal Emitters industry.

This Insight Report provides a comprehensive analysis of the global Thermal Emitters landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Thermal Emitters portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Thermal Emitters market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Thermal Emitters and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Thermal Emitters.

This report presents a comprehensive overview, market shares, and growth opportunities of Thermal Emitters market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Selective Thermal Emitters

Broadband Thermal Emitters

Segmentation by Operating Temperature:

Low-temperature Emitters (800 °C)

Segmentation by Application:

Automotive

Aerospace & Defense

Energy & Power

Industrial & Manufacturing

Electronics & Semiconductors

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Infrasolid

Excelitas Technologies

HawkEye Technologies

Axetris

Honeywell

TE Connectivity

Luminus Devices

Marktech Optoelectronics

Meggitt

Leister Technologies

Coherent

Lynred

Microcontinuum

ICX Photonics

OptoTech

Jenoptik

NKT Photonics

NeoPhotonics

Key Questions Addressed in this Report

What is the 10-year outlook for the global Thermal Emitters market?

What factors are driving Thermal Emitters market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Thermal Emitters market opportunities vary by end market size?

How does Thermal Emitters break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Thermal Emitters Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Thermal Emitters by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Thermal Emitters by Country/Region, 2021, 2025 & 2032

2.2 Thermal Emitters Segment by Type

- 2.2.1 Selective Thermal Emitters
- 2.2.2 Broadband Thermal Emitters
- 2.2.3 Thermal Emitters Sales by Type
 - 2.2.3.1 Global Thermal Emitters Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Thermal Emitters Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Thermal Emitters Sale Price by Type (2021-2026)

2.3 Thermal Emitters Segment by Operating Temperature

- 2.3.1 Low-temperature Emitters (800 °C)
- 2.3.4 Thermal Emitters Sales by Operating Temperature
 - 2.3.4.1 Global Thermal Emitters Sales Market Share by Operating Temperature (2021-2026)
 - 2.3.4.2 Global Thermal Emitters Revenue and Market Share by Operating Temperature (2021-2026)
 - 2.3.4.3 Global Thermal Emitters Sale Price by Operating Temperature (2021-2026)

2.4 Thermal Emitters Segment by Application

- 2.4.1 Automotive
- 2.4.2 Aerospace & Defense

- 2.4.3 Energy & Power
- 2.4.4 Industrial & Manufacturing
- 2.4.5 Electronics & Semiconductors
- 2.4.6 Others
- 2.4.7 Thermal Emitters Sales by Application
 - 2.4.7.1 Global Thermal Emitters Sale Market Share by Application (2021-2026)
 - 2.4.7.2 Global Thermal Emitters Revenue and Market Share by Application (2021-2026)
 - 2.4.7.3 Global Thermal Emitters Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

- 3.1 Global Thermal Emitters Breakdown Data by Company
 - 3.1.1 Global Thermal Emitters Annual Sales by Company (2021-2026)
 - 3.1.2 Global Thermal Emitters Sales Market Share by Company (2021-2026)
- 3.2 Global Thermal Emitters Annual Revenue by Company (2021-2026)
 - 3.2.1 Global Thermal Emitters Revenue by Company (2021-2026)
 - 3.2.2 Global Thermal Emitters Revenue Market Share by Company (2021-2026)
- 3.3 Global Thermal Emitters Sale Price by Company
- 3.4 Key Manufacturers Thermal Emitters Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Thermal Emitters Product Location Distribution
 - 3.4.2 Players Thermal Emitters Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR THERMAL EMITTERS BY GEOGRAPHIC REGION

- 4.1 World Historic Thermal Emitters Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Thermal Emitters Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Thermal Emitters Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Thermal Emitters Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Thermal Emitters Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Thermal Emitters Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Thermal Emitters Sales Growth

- 4.4 APAC Thermal Emitters Sales Growth
- 4.5 Europe Thermal Emitters Sales Growth
- 4.6 Middle East & Africa Thermal Emitters Sales Growth

5 AMERICAS

- 5.1 Americas Thermal Emitters Sales by Country
 - 5.1.1 Americas Thermal Emitters Sales by Country (2021-2026)
 - 5.1.2 Americas Thermal Emitters Revenue by Country (2021-2026)
- 5.2 Americas Thermal Emitters Sales by Type (2021-2026)
- 5.3 Americas Thermal Emitters Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Thermal Emitters Sales by Region
 - 6.1.1 APAC Thermal Emitters Sales by Region (2021-2026)
 - 6.1.2 APAC Thermal Emitters Revenue by Region (2021-2026)
- 6.2 APAC Thermal Emitters Sales by Type (2021-2026)
- 6.3 APAC Thermal Emitters Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe Thermal Emitters by Country
 - 7.1.1 Europe Thermal Emitters Sales by Country (2021-2026)
 - 7.1.2 Europe Thermal Emitters Revenue by Country (2021-2026)
- 7.2 Europe Thermal Emitters Sales by Type (2021-2026)
- 7.3 Europe Thermal Emitters Sales by Application (2021-2026)
- 7.4 Germany

- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Thermal Emitters by Country
 - 8.1.1 Middle East & Africa Thermal Emitters Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Thermal Emitters Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Thermal Emitters Sales by Type (2021-2026)
- 8.3 Middle East & Africa Thermal Emitters Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Thermal Emitters
- 10.3 Manufacturing Process Analysis of Thermal Emitters
- 10.4 Industry Chain Structure of Thermal Emitters

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Thermal Emitters Distributors
- 11.3 Thermal Emitters Customer

12 WORLD FORECAST REVIEW FOR THERMAL EMITTERS BY GEOGRAPHIC REGION

12.1 Global Thermal Emitters Market Size Forecast by Region

12.1.1 Global Thermal Emitters Forecast by Region (2027-2032)

12.1.2 Global Thermal Emitters Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Thermal Emitters Forecast by Type (2027-2032)

12.7 Global Thermal Emitters Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Infrasolid

13.1.1 Infrasolid Company Information

13.1.2 Infrasolid Thermal Emitters Product Portfolios and Specifications

13.1.3 Infrasolid Thermal Emitters Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Infrasolid Main Business Overview

13.1.5 Infrasolid Latest Developments

13.2 Excelitas Technologies

13.2.1 Excelitas Technologies Company Information

13.2.2 Excelitas Technologies Thermal Emitters Product Portfolios and Specifications

13.2.3 Excelitas Technologies Thermal Emitters Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Excelitas Technologies Main Business Overview

13.2.5 Excelitas Technologies Latest Developments

13.3 HawkEye Technologies

13.3.1 HawkEye Technologies Company Information

13.3.2 HawkEye Technologies Thermal Emitters Product Portfolios and Specifications

13.3.3 HawkEye Technologies Thermal Emitters Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 HawkEye Technologies Main Business Overview

13.3.5 HawkEye Technologies Latest Developments

13.4 Axetris

13.4.1 Axetris Company Information

13.4.2 Axetris Thermal Emitters Product Portfolios and Specifications

- 13.4.3 Axetris Thermal Emitters Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.4.4 Axetris Main Business Overview
- 13.4.5 Axetris Latest Developments
- 13.5 Honeywell
 - 13.5.1 Honeywell Company Information
 - 13.5.2 Honeywell Thermal Emitters Product Portfolios and Specifications
 - 13.5.3 Honeywell Thermal Emitters Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Honeywell Main Business Overview
 - 13.5.5 Honeywell Latest Developments
- 13.6 TE Connectivity
 - 13.6.1 TE Connectivity Company Information
 - 13.6.2 TE Connectivity Thermal Emitters Product Portfolios and Specifications
 - 13.6.3 TE Connectivity Thermal Emitters Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 TE Connectivity Main Business Overview
 - 13.6.5 TE Connectivity Latest Developments
- 13.7 Luminus Devices
 - 13.7.1 Luminus Devices Company Information
 - 13.7.2 Luminus Devices Thermal Emitters Product Portfolios and Specifications
 - 13.7.3 Luminus Devices Thermal Emitters Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Luminus Devices Main Business Overview
 - 13.7.5 Luminus Devices Latest Developments
- 13.8 Marktech Optoelectronics
 - 13.8.1 Marktech Optoelectronics Company Information
 - 13.8.2 Marktech Optoelectronics Thermal Emitters Product Portfolios and Specifications
 - 13.8.3 Marktech Optoelectronics Thermal Emitters Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 Marktech Optoelectronics Main Business Overview
 - 13.8.5 Marktech Optoelectronics Latest Developments
- 13.9 Meggitt
 - 13.9.1 Meggitt Company Information
 - 13.9.2 Meggitt Thermal Emitters Product Portfolios and Specifications
 - 13.9.3 Meggitt Thermal Emitters Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 Meggitt Main Business Overview
 - 13.9.5 Meggitt Latest Developments
- 13.10 Leister Technologies

- 13.10.1 Leister Technologies Company Information
- 13.10.2 Leister Technologies Thermal Emitters Product Portfolios and Specifications
- 13.10.3 Leister Technologies Thermal Emitters Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.10.4 Leister Technologies Main Business Overview
- 13.10.5 Leister Technologies Latest Developments
- 13.11 Coherent
 - 13.11.1 Coherent Company Information
 - 13.11.2 Coherent Thermal Emitters Product Portfolios and Specifications
 - 13.11.3 Coherent Thermal Emitters Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 Coherent Main Business Overview
 - 13.11.5 Coherent Latest Developments
- 13.12 Lynred
 - 13.12.1 Lynred Company Information
 - 13.12.2 Lynred Thermal Emitters Product Portfolios and Specifications
 - 13.12.3 Lynred Thermal Emitters Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.12.4 Lynred Main Business Overview
 - 13.12.5 Lynred Latest Developments
- 13.13 Microcontinuum
 - 13.13.1 Microcontinuum Company Information
 - 13.13.2 Microcontinuum Thermal Emitters Product Portfolios and Specifications
 - 13.13.3 Microcontinuum Thermal Emitters Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.13.4 Microcontinuum Main Business Overview
 - 13.13.5 Microcontinuum Latest Developments
- 13.14 ICX Photonics
 - 13.14.1 ICX Photonics Company Information
 - 13.14.2 ICX Photonics Thermal Emitters Product Portfolios and Specifications
 - 13.14.3 ICX Photonics Thermal Emitters Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.14.4 ICX Photonics Main Business Overview
 - 13.14.5 ICX Photonics Latest Developments
- 13.15 OptoTech
 - 13.15.1 OptoTech Company Information
 - 13.15.2 OptoTech Thermal Emitters Product Portfolios and Specifications
 - 13.15.3 OptoTech Thermal Emitters Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.15.4 OptoTech Main Business Overview
- 13.15.5 OptoTech Latest Developments
- 13.16 Jenoptik
 - 13.16.1 Jenoptik Company Information
 - 13.16.2 Jenoptik Thermal Emitters Product Portfolios and Specifications
 - 13.16.3 Jenoptik Thermal Emitters Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.16.4 Jenoptik Main Business Overview
 - 13.16.5 Jenoptik Latest Developments
- 13.17 NKT Photonics
 - 13.17.1 NKT Photonics Company Information
 - 13.17.2 NKT Photonics Thermal Emitters Product Portfolios and Specifications
 - 13.17.3 NKT Photonics Thermal Emitters Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.17.4 NKT Photonics Main Business Overview
 - 13.17.5 NKT Photonics Latest Developments
- 13.18 NeoPhotonics
 - 13.18.1 NeoPhotonics Company Information
 - 13.18.2 NeoPhotonics Thermal Emitters Product Portfolios and Specifications
 - 13.18.3 NeoPhotonics Thermal Emitters Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.18.4 NeoPhotonics Main Business Overview
 - 13.18.5 NeoPhotonics Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Thermal Emitters Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Thermal Emitters Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Selective Thermal Emitters

Table 4. Major Players of Broadband Thermal Emitters

Table 5. Global Thermal Emitters Sales by Type (2021-2026) & (K Units)

Table 6. Global Thermal Emitters Sales Market Share by Type (2021-2026)

Table 7. Global Thermal Emitters Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Thermal Emitters Revenue Market Share by Type (2021-2026)

Table 9. Global Thermal Emitters Sale Price by Type (2021-2026) & (US\$/Unit)

Table 10. Major Players of Low-temperature Emitters (800 °C)

Table 13. Global Thermal Emitters Sales by Operating Temperature (2021-2026) & (K Units)

Table 14. Global Thermal Emitters Sales Market Share by Operating Temperature (2021-2026)

Table 15. Global Thermal Emitters Revenue by Operating Temperature (2021-2026) & (\$ million)

Table 16. Global Thermal Emitters Revenue Market Share by Operating Temperature (2021-2026)

Table 17. Global Thermal Emitters Sale Price by Operating Temperature (2021-2026) & (US\$/Unit)

Table 18. Global Thermal Emitters Sale by Application (2021-2026) & (K Units)

Table 19. Global Thermal Emitters Sale Market Share by Application (2021-2026)

Table 20. Global Thermal Emitters Revenue by Application (2021-2026) & (\$ million)

Table 21. Global Thermal Emitters Revenue Market Share by Application (2021-2026)

Table 22. Global Thermal Emitters Sale Price by Application (2021-2026) & (US\$/Unit)

Table 23. Global Thermal Emitters Sales by Company (2021-2026) & (K Units)

Table 24. Global Thermal Emitters Sales Market Share by Company (2021-2026)

Table 25. Global Thermal Emitters Revenue by Company (2021-2026) & (\$ millions)

Table 26. Global Thermal Emitters Revenue Market Share by Company (2021-2026)

Table 27. Global Thermal Emitters Sale Price by Company (2021-2026) & (US\$/Unit)

Table 28. Key Manufacturers Thermal Emitters Producing Area Distribution and Sales Area

Table 29. Players Thermal Emitters Products Offered

- Table 30. Thermal Emitters Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- Table 31. New Products and Potential Entrants
- Table 32. Market M&A Activity & Strategy
- Table 33. Global Thermal Emitters Sales by Geographic Region (2021-2026) & (K Units)
- Table 34. Global Thermal Emitters Sales Market Share Geographic Region (2021-2026)
- Table 35. Global Thermal Emitters Revenue by Geographic Region (2021-2026) & (\$ millions)
- Table 36. Global Thermal Emitters Revenue Market Share by Geographic Region (2021-2026)
- Table 37. Global Thermal Emitters Sales by Country/Region (2021-2026) & (K Units)
- Table 38. Global Thermal Emitters Sales Market Share by Country/Region (2021-2026)
- Table 39. Global Thermal Emitters Revenue by Country/Region (2021-2026) & (\$ millions)
- Table 40. Global Thermal Emitters Revenue Market Share by Country/Region (2021-2026)
- Table 41. Americas Thermal Emitters Sales by Country (2021-2026) & (K Units)
- Table 42. Americas Thermal Emitters Sales Market Share by Country (2021-2026)
- Table 43. Americas Thermal Emitters Revenue by Country (2021-2026) & (\$ millions)
- Table 44. Americas Thermal Emitters Sales by Type (2021-2026) & (K Units)
- Table 45. Americas Thermal Emitters Sales by Application (2021-2026) & (K Units)
- Table 46. APAC Thermal Emitters Sales by Region (2021-2026) & (K Units)
- Table 47. APAC Thermal Emitters Sales Market Share by Region (2021-2026)
- Table 48. APAC Thermal Emitters Revenue by Region (2021-2026) & (\$ millions)
- Table 49. APAC Thermal Emitters Sales by Type (2021-2026) & (K Units)
- Table 50. APAC Thermal Emitters Sales by Application (2021-2026) & (K Units)
- Table 51. Europe Thermal Emitters Sales by Country (2021-2026) & (K Units)
- Table 52. Europe Thermal Emitters Revenue by Country (2021-2026) & (\$ millions)
- Table 53. Europe Thermal Emitters Sales by Type (2021-2026) & (K Units)
- Table 54. Europe Thermal Emitters Sales by Application (2021-2026) & (K Units)
- Table 55. Middle East & Africa Thermal Emitters Sales by Country (2021-2026) & (K Units)
- Table 56. Middle East & Africa Thermal Emitters Revenue Market Share by Country (2021-2026)
- Table 57. Middle East & Africa Thermal Emitters Sales by Type (2021-2026) & (K Units)
- Table 58. Middle East & Africa Thermal Emitters Sales by Application (2021-2026) & (K Units)
- Table 59. Key Market Drivers & Growth Opportunities of Thermal Emitters
- Table 60. Key Market Challenges & Risks of Thermal Emitters

Table 61. Key Industry Trends of Thermal Emitters

Table 62. Thermal Emitters Raw Material

Table 63. Key Suppliers of Raw Materials

Table 64. Thermal Emitters Distributors List

Table 65. Thermal Emitters Customer List

Table 66. Global Thermal Emitters Sales Forecast by Region (2027-2032) & (K Units)

Table 67. Global Thermal Emitters Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 68. Americas Thermal Emitters Sales Forecast by Country (2027-2032) & (K Units)

Table 69. Americas Thermal Emitters Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 70. APAC Thermal Emitters Sales Forecast by Region (2027-2032) & (K Units)

Table 71. APAC Thermal Emitters Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 72. Europe Thermal Emitters Sales Forecast by Country (2027-2032) & (K Units)

Table 73. Europe Thermal Emitters Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 74. Middle East & Africa Thermal Emitters Sales Forecast by Country (2027-2032) & (K Units)

Table 75. Middle East & Africa Thermal Emitters Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 76. Global Thermal Emitters Sales Forecast by Type (2027-2032) & (K Units)

Table 77. Global Thermal Emitters Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 78. Global Thermal Emitters Sales Forecast by Application (2027-2032) & (K Units)

Table 79. Global Thermal Emitters Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 80. Infracore Basic Information, Thermal Emitters Manufacturing Base, Sales Area and Its Competitors

Table 81. Infracore Thermal Emitters Product Portfolios and Specifications

Table 82. Infracore Thermal Emitters Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 83. Infracore Main Business

Table 84. Infracore Latest Developments

Table 85. Excelitas Technologies Basic Information, Thermal Emitters Manufacturing Base, Sales Area and Its Competitors

Table 86. Excelitas Technologies Thermal Emitters Product Portfolios and

Specifications

Table 87. Excelitas Technologies Thermal Emitters Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 88. Excelitas Technologies Main Business

Table 89. Excelitas Technologies Latest Developments

Table 90. HawkEye Technologies Basic Information, Thermal Emitters Manufacturing Base, Sales Area and Its Competitors

Table 91. HawkEye Technologies Thermal Emitters Product Portfolios and Specifications

Table 92. HawkEye Technologies Thermal Emitters Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 93. HawkEye Technologies Main Business

Table 94. HawkEye Technologies Latest Developments

Table 95. Axetris Basic Information, Thermal Emitters Manufacturing Base, Sales Area and Its Competitors

Table 96. Axetris Thermal Emitters Product Portfolios and Specifications

Table 97. Axetris Thermal Emitters Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 98. Axetris Main Business

Table 99. Axetris Latest Developments

Table 100. Honeywell Basic Information, Thermal Emitters Manufacturing Base, Sales Area and Its Competitors

Table 101. Honeywell Thermal Emitters Product Portfolios and Specifications

Table 102. Honeywell Thermal Emitters Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 103. Honeywell Main Business

Table 104. Honeywell Latest Developments

Table 105. TE Connectivity Basic Information, Thermal Emitters Manufacturing Base, Sales Area and Its Competitors

Table 106. TE Connectivity Thermal Emitters Product Portfolios and Specifications

Table 107. TE Connectivity Thermal Emitters Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 108. TE Connectivity Main Business

Table 109. TE Connectivity Latest Developments

Table 110. Luminus Devices Basic Information, Thermal Emitters Manufacturing Base, Sales Area and Its Competitors

Table 111. Luminus Devices Thermal Emitters Product Portfolios and Specifications

Table 112. Luminus Devices Thermal Emitters Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

- Table 113. Luminus Devices Main Business
- Table 114. Luminus Devices Latest Developments
- Table 115. Marktech Optoelectronics Basic Information, Thermal Emitters Manufacturing Base, Sales Area and Its Competitors
- Table 116. Marktech Optoelectronics Thermal Emitters Product Portfolios and Specifications
- Table 117. Marktech Optoelectronics Thermal Emitters Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 118. Marktech Optoelectronics Main Business
- Table 119. Marktech Optoelectronics Latest Developments
- Table 120. Meggitt Basic Information, Thermal Emitters Manufacturing Base, Sales Area and Its Competitors
- Table 121. Meggitt Thermal Emitters Product Portfolios and Specifications
- Table 122. Meggitt Thermal Emitters Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 123. Meggitt Main Business
- Table 124. Meggitt Latest Developments
- Table 125. Leister Technologies Basic Information, Thermal Emitters Manufacturing Base, Sales Area and Its Competitors
- Table 126. Leister Technologies Thermal Emitters Product Portfolios and Specifications
- Table 127. Leister Technologies Thermal Emitters Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 128. Leister Technologies Main Business
- Table 129. Leister Technologies Latest Developments
- Table 130. Coherent Basic Information, Thermal Emitters Manufacturing Base, Sales Area and Its Competitors
- Table 131. Coherent Thermal Emitters Product Portfolios and Specifications
- Table 132. Coherent Thermal Emitters Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 133. Coherent Main Business
- Table 134. Coherent Latest Developments
- Table 135. Lynred Basic Information, Thermal Emitters Manufacturing Base, Sales Area and Its Competitors
- Table 136. Lynred Thermal Emitters Product Portfolios and Specifications
- Table 137. Lynred Thermal Emitters Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 138. Lynred Main Business
- Table 139. Lynred Latest Developments
- Table 140. Microcontinuum Basic Information, Thermal Emitters Manufacturing Base,

Sales Area and Its Competitors

Table 141. Microcontinuum Thermal Emitters Product Portfolios and Specifications

Table 142. Microcontinuum Thermal Emitters Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 143. Microcontinuum Main Business

Table 144. Microcontinuum Latest Developments

Table 145. ICX Photonics Basic Information, Thermal Emitters Manufacturing Base, Sales Area and Its Competitors

Table 146. ICX Photonics Thermal Emitters Product Portfolios and Specifications

Table 147. ICX Photonics Thermal Emitters Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 148. ICX Photonics Main Business

Table 149. ICX Photonics Latest Developments

Table 150. OptoTech Basic Information, Thermal Emitters Manufacturing Base, Sales Area and Its Competitors

Table 151. OptoTech Thermal Emitters Product Portfolios and Specifications

Table 152. OptoTech Thermal Emitters Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 153. OptoTech Main Business

Table 154. OptoTech Latest Developments

Table 155. Jenoptik Basic Information, Thermal Emitters Manufacturing Base, Sales Area and Its Competitors

Table 156. Jenoptik Thermal Emitters Product Portfolios and Specifications

Table 157. Jenoptik Thermal Emitters Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 158. Jenoptik Main Business

Table 159. Jenoptik Latest Developments

Table 160. NKT Photonics Basic Information, Thermal Emitters Manufacturing Base, Sales Area and Its Competitors

Table 161. NKT Photonics Thermal Emitters Product Portfolios and Specifications

Table 162. NKT Photonics Thermal Emitters Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 163. NKT Photonics Main Business

Table 164. NKT Photonics Latest Developments

Table 165. NeoPhotonics Basic Information, Thermal Emitters Manufacturing Base, Sales Area and Its Competitors

Table 166. NeoPhotonics Thermal Emitters Product Portfolios and Specifications

Table 167. NeoPhotonics Thermal Emitters Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 168. NeoPhotonics Main Business

Table 169. NeoPhotonics Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Picture of Thermal Emitters

Figure 2. Thermal Emitters Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global Thermal Emitters Sales Growth Rate 2021-2032 (K Units)

Figure 7. Global Thermal Emitters Revenue Growth Rate 2021-2032 (\$ millions)

Figure 8. Thermal Emitters Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 9. Thermal Emitters Sales Market Share by Country/Region (2025)

Figure 10. Thermal Emitters Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of Selective Thermal Emitters

Figure 12. Product Picture of Broadband Thermal Emitters

Figure 13. Global Thermal Emitters Sales Market Share by Type in 2026

Figure 14. Global Thermal Emitters Revenue Market Share by Type (2021-2026)

Figure 15. Product Picture of Low-temperature Emitters (800 °C)

Figure 18. Global Thermal Emitters Sales Market Share by Operating Temperature in 2026

Figure 19. Global Thermal Emitters Revenue Market Share by Operating Temperature (2021-2026)

Figure 20. Thermal Emitters Consumed in Automotive

Figure 21. Global Thermal Emitters Market: Automotive (2021-2026) & (K Units)

Figure 22. Thermal Emitters Consumed in Aerospace & Defense

Figure 23. Global Thermal Emitters Market: Aerospace & Defense (2021-2026) & (K Units)

Figure 24. Thermal Emitters Consumed in Energy & Power

Figure 25. Global Thermal Emitters Market: Energy & Power (2021-2026) & (K Units)

Figure 26. Thermal Emitters Consumed in Industrial & Manufacturing

Figure 27. Global Thermal Emitters Market: Industrial & Manufacturing (2021-2026) & (K Units)

Figure 28. Thermal Emitters Consumed in Electronics & Semiconductors

Figure 29. Global Thermal Emitters Market: Electronics & Semiconductors (2021-2026) & (K Units)

Figure 30. Thermal Emitters Consumed in Others

- Figure 31. Global Thermal Emitters Market: Others (2021-2026) & (K Units)
- Figure 32. Global Thermal Emitters Sale Market Share by Application (2025)
- Figure 33. Global Thermal Emitters Revenue Market Share by Application in 2026
- Figure 34. Thermal Emitters Sales by Company in 2026 (K Units)
- Figure 35. Global Thermal Emitters Sales Market Share by Company in 2026
- Figure 36. Thermal Emitters Revenue by Company in 2026 (\$ millions)
- Figure 37. Global Thermal Emitters Revenue Market Share by Company in 2026
- Figure 38. Global Thermal Emitters Sales Market Share by Geographic Region (2021-2026)
- Figure 39. Global Thermal Emitters Revenue Market Share by Geographic Region in 2026
- Figure 40. Americas Thermal Emitters Sales 2021-2026 (K Units)
- Figure 41. Americas Thermal Emitters Revenue 2021-2026 (\$ millions)
- Figure 42. APAC Thermal Emitters Sales 2021-2026 (K Units)
- Figure 43. APAC Thermal Emitters Revenue 2021-2026 (\$ millions)
- Figure 44. Europe Thermal Emitters Sales 2021-2026 (K Units)
- Figure 45. Europe Thermal Emitters Revenue 2021-2026 (\$ millions)
- Figure 46. Middle East & Africa Thermal Emitters Sales 2021-2026 (K Units)
- Figure 47. Middle East & Africa Thermal Emitters Revenue 2021-2026 (\$ millions)
- Figure 48. Americas Thermal Emitters Sales Market Share by Country in 2026
- Figure 49. Americas Thermal Emitters Revenue Market Share by Country (2021-2026)
- Figure 50. Americas Thermal Emitters Sales Market Share by Type (2021-2026)
- Figure 51. Americas Thermal Emitters Sales Market Share by Application (2021-2026)
- Figure 52. United States Thermal Emitters Revenue Growth 2021-2026 (\$ millions)
- Figure 53. Canada Thermal Emitters Revenue Growth 2021-2026 (\$ millions)
- Figure 54. Mexico Thermal Emitters Revenue Growth 2021-2026 (\$ millions)
- Figure 55. Brazil Thermal Emitters Revenue Growth 2021-2026 (\$ millions)
- Figure 56. APAC Thermal Emitters Sales Market Share by Region in 2026
- Figure 57. APAC Thermal Emitters Revenue Market Share by Region (2021-2026)
- Figure 58. APAC Thermal Emitters Sales Market Share by Type (2021-2026)
- Figure 59. APAC Thermal Emitters Sales Market Share by Application (2021-2026)
- Figure 60. China Thermal Emitters Revenue Growth 2021-2026 (\$ millions)
- Figure 61. Japan Thermal Emitters Revenue Growth 2021-2026 (\$ millions)
- Figure 62. South Korea Thermal Emitters Revenue Growth 2021-2026 (\$ millions)
- Figure 63. Southeast Asia Thermal Emitters Revenue Growth 2021-2026 (\$ millions)
- Figure 64. India Thermal Emitters Revenue Growth 2021-2026 (\$ millions)
- Figure 65. Australia Thermal Emitters Revenue Growth 2021-2026 (\$ millions)
- Figure 66. China Taiwan Thermal Emitters Revenue Growth 2021-2026 (\$ millions)
- Figure 67. Europe Thermal Emitters Sales Market Share by Country in 2026

Figure 68. Europe Thermal Emitters Revenue Market Share by Country (2021-2026)

Figure 69. Europe Thermal Emitters Sales Market Share by Type (2021-2026)

Figure 70. Europe Thermal Emitters Sales Market Share by Application (2021-2026)

Figure 71. Germany Thermal Emitters Revenue Growth 2021-2026 (\$ millions)

Figure 72. France Thermal Emitters Revenue Growth 2021-2026 (\$ millions)

Figure 73. UK Thermal Emitters Revenue Growth 2021-2026 (\$ millions)

Figure 74. Italy Thermal Emitters Revenue Growth 2021-2026 (\$ millions)

Figure 75. Russia Thermal Emitters Revenue Growth 2021-2026 (\$ millions)

Figure 76. Middle East & Africa Thermal Emitters Sales Market Share by Country (2021-2026)

Figure 77. Middle East & Africa Thermal Emitters Sales Market Share by Type (2021-2026)

Figure 78. Middle East & Africa Thermal Emitters Sales Market Share by Application (2021-2026)

Figure 79. Egypt Thermal Emitters Revenue Growth 2021-2026 (\$ millions)

Figure 80. South Africa Thermal Emitters Revenue Growth 2021-2026 (\$ millions)

Figure 81. Israel Thermal Emitters Revenue Growth 2021-2026 (\$ millions)

Figure 82. Turkey Thermal Emitters Revenue Growth 2021-2026 (\$ millions)

Figure 83. GCC Countries Thermal Emitters Revenue Growth 2021-2026 (\$ millions)

Figure 84. Manufacturing Cost Structure Analysis of Thermal Emitters in 2026

Figure 85. Manufacturing Process Analysis of Thermal Emitters

Figure 86. Industry Chain Structure of Thermal Emitters

Figure 87. Channels of Distribution

Figure 88. Global Thermal Emitters Sales Market Forecast by Region (2027-2032)

Figure 89. Global Thermal Emitters Revenue Market Share Forecast by Region (2027-2032)

Figure 90. Global Thermal Emitters Sales Market Share Forecast by Type (2027-2032)

Figure 91. Global Thermal Emitters Revenue Market Share Forecast by Type (2027-2032)

Figure 92. Global Thermal Emitters Sales Market Share Forecast by Application (2027-2032)

Figure 93. Global Thermal Emitters Revenue Market Share Forecast by Application (2027-2032)

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