

Global Infrared Blackbody Source Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Infrared Blackbody Source market size is expected to reach \$ 280 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

In 2025, the global sales volume of Infrared Blackbody Source was approximately 52,000 units, with the mainstream ex-factory average price at about USD 3,400 per unit and the gross margin of major manufacturers at around 35%-50%.

Infrared Blackbody Source is a standard radiation source used to provide stable and controllable infrared radiation output. It typically generates infrared radiation close to that of an ideal blackbody through a high-emissivity cavity or radiating surface at a set temperature. Its core value lies in radiation temperature stability, emissivity consistency, and temperature field uniformity, providing traceable and repeatable calibration references for infrared temperature measurement, thermal imaging, and infrared detection equipment. Compared with ordinary heat source, Infrared Blackbody Source places greater emphasis on precise control of radiation characteristics and is usually equipped with a high-precision temperature control system, sensor feedback, and stable structural design to ensure long-term output stability and measurement reliability.

The upstream supply chain of Infrared Blackbody Source mainly includes high-emissivity coating material, high-temperature-resistant metal or ceramic cavity, heating element, temperature sensor, temperature control module, precision mechanical component, and electronic control component. Among these, emissivity material, temperature control accuracy, and cavity structure directly affect product performance. The midstream segment covers the design, machining, assembly, temperature control adjustment, and metrological calibration of blackbody radiation source, requiring manufacturers to have capabilities in thermal design, infrared radiometry, and precision

temperature control. Downstream demand mainly comes from infrared thermometer, thermal imager, infrared detector, optoelectronic test system, aerospace remote sensing payload, and metrology laboratory, driven by factory calibration, periodic inspection, R&D testing, and the development of standard metrology system for infrared equipment.

This report studies the global Infrared Blackbody Source production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Infrared Blackbody Source total production and demand, 2021-2032, (Units)

Global Infrared Blackbody Source total production value, 2021-2032, (USD Million)

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

Global Infrared Blackbody Source consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Infrared Blackbody Source domestic production, consumption, key domestic manufacturers and share

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

Global Infrared Blackbody Source production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Infrared Blackbody Source production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Infrared Blackbody Source market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include CI Systems, HGH Infrared Systems, Santa Barbara Infrared, Infrared Systems Development Corporation, Isothermal Technology, Land Instruments International, Fluke, HEITRONICS Infrarot Messtechnik, Advanced Energy Industries, CHINO, etc.

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

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

Detailed Segmentation:

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

Global Infrared Blackbody Source Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Infrared Blackbody Source Market, Segmentation by Type:

Cavity Blackbody

Area Blackbody

Global Infrared Blackbody Source Market, Segmentation by Operating Temperature:

Low-Temperature Blackbody (-40?150?C)

Medium-Temperature Blackbody (150?600?C)

High-Temperature Blackbody (Above 600?C)

Global Infrared Blackbody Source Market, Segmentation by Application:

Infrared Temperature Measurement Calibration

Thermal Imaging Equipment Calibration

Infrared Detector Testing

Optoelectronic System Calibration

Aerospace and Remote Sensing Calibration

Other

Companies Profiled:

CI Systems

HGH Infrared Systems

Santa Barbara Infrared

Infrared Systems Development Corporation

Isothermal Technology

Land Instruments International

Fluke

HEITRONICS Infrarot Messtechnik

Advanced Energy Industries

CHINO

Tempsens Instruments

Nagman Instruments

Electronic Development Laboratories

INFRAMET

Sensortherm

Guangzhou Riqi Electronics Co., Ltd.

Tai'an Demei Mechanical and Electrical Equipment Co., Ltd.

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Infrared Blackbody Source Demand (2021-2032)
- 2.2 World Infrared Blackbody Source Consumption by Region
 - 2.2.1 World Infrared Blackbody Source Consumption by Region (2021-2026)
 - 2.2.2 World Infrared Blackbody Source Consumption Forecast by Region (2027-2032)
- 2.3 United States Infrared Blackbody Source Consumption (2021-2032)
- 2.4 China Infrared Blackbody Source Consumption (2021-2032)
- 2.5 Europe Infrared Blackbody Source Consumption (2021-2032)
- 2.6 Japan Infrared Blackbody Source Consumption (2021-2032)
- 2.7 South Korea Infrared Blackbody Source Consumption (2021-2032)
- 2.8 ASEAN Infrared Blackbody Source Consumption (2021-2032)
- 2.9 India Infrared Blackbody Source Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Infrared Blackbody Source Production Value by Manufacturer (2021-2026)
- 3.2 World Infrared Blackbody Source Production by Manufacturer (2021-2026)
- 3.3 World Infrared Blackbody Source Average Price by Manufacturer (2021-2026)
- 3.4 Infrared Blackbody Source Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Infrared Blackbody Source Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Infrared Blackbody Source in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Infrared Blackbody Source in 2025
- 3.6 Infrared Blackbody Source Market: Overall Company Footprint Analysis
 - 3.6.1 Infrared Blackbody Source Market: Region Footprint
 - 3.6.2 Infrared Blackbody Source Market: Company Product Type Footprint
 - 3.6.3 Infrared Blackbody Source Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Infrared Blackbody Source Production Value Comparison
 - 4.1.1 United States VS China: Infrared Blackbody Source Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Infrared Blackbody Source Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Infrared Blackbody Source Production Comparison
 - 4.2.1 United States VS China: Infrared Blackbody Source Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Infrared Blackbody Source Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Infrared Blackbody Source Consumption Comparison
 - 4.3.1 United States VS China: Infrared Blackbody Source Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Infrared Blackbody Source Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Infrared Blackbody Source Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Infrared Blackbody Source Manufacturers, Headquarters

and Production Site (States, Country)

4.4.2 United States Based Manufacturers Infrared Blackbody Source Production Value (2021-2026)

4.4.3 United States Based Manufacturers Infrared Blackbody Source Production (2021-2026)

4.5 China Based Infrared Blackbody Source Manufacturers and Market Share

4.5.1 China Based Infrared Blackbody Source Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Infrared Blackbody Source Production Value (2021-2026)

4.5.3 China Based Manufacturers Infrared Blackbody Source Production (2021-2026)

4.6 Rest of World Based Infrared Blackbody Source Manufacturers and Market Share, 2021-2026

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

4.6.2 Rest of World Based Manufacturers Infrared Blackbody Source Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Infrared Blackbody Source Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Infrared Blackbody Source Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Cavity Blackbody

5.2.2 Area Blackbody

5.3 Market Segment by Type

5.3.1 World Infrared Blackbody Source Production by Type (2021-2032)

5.3.2 World Infrared Blackbody Source Production Value by Type (2021-2032)

5.3.3 World Infrared Blackbody Source Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY OPERATING TEMPERATURE

6.1 World Infrared Blackbody Source Market Size Overview by Operating Temperature: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Operating Temperature

6.2.1 Low-Temperature Blackbody (-40?150?C)

6.2.2 Medium-Temperature Blackbody (150?600?C)

- 6.2.3 High-Temperature Blackbody (Above 600°C)
- 6.3 Market Segment by Operating Temperature
 - 6.3.1 World Infrared Blackbody Source Production by Operating Temperature (2021-2032)
 - 6.3.2 World Infrared Blackbody Source Production Value by Operating Temperature (2021-2032)
 - 6.3.3 World Infrared Blackbody Source Average Price by Operating Temperature (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

- 7.1 World Infrared Blackbody Source Market Size Overview by Application: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Application
 - 7.2.1 Infrared Temperature Measurement Calibration
 - 7.2.2 Thermal Imaging Equipment Calibration
 - 7.2.3 Infrared Detector Testing
 - 7.2.4 Optoelectronic System Calibration
 - 7.2.5 Aerospace and Remote Sensing Calibration
 - 7.2.6 Other
- 7.3 Market Segment by Application
 - 7.3.1 World Infrared Blackbody Source Production by Application (2021-2032)
 - 7.3.2 World Infrared Blackbody Source Production Value by Application (2021-2032)
 - 7.3.3 World Infrared Blackbody Source Average Price by Application (2021-2032)

8 COMPANY PROFILES

- 8.1 CI Systems
 - 8.1.1 CI Systems Details
 - 8.1.2 CI Systems Major Business
 - 8.1.3 CI Systems Infrared Blackbody Source Product and Services
 - 8.1.4 CI Systems Infrared Blackbody Source Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.1.5 CI Systems Recent Developments/Updates
 - 8.1.6 CI Systems Competitive Strengths & Weaknesses
- 8.2 HGH Infrared Systems
 - 8.2.1 HGH Infrared Systems Details
 - 8.2.2 HGH Infrared Systems Major Business
 - 8.2.3 HGH Infrared Systems Infrared Blackbody Source Product and Services

8.2.4 HGH Infrared Systems Infrared Blackbody Source Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.2.5 HGH Infrared Systems Recent Developments/Updates

8.2.6 HGH Infrared Systems Competitive Strengths & Weaknesses

8.3 Santa Barbara Infrared

8.3.1 Santa Barbara Infrared Details

8.3.2 Santa Barbara Infrared Major Business

8.3.3 Santa Barbara Infrared Infrared Blackbody Source Product and Services

8.3.4 Santa Barbara Infrared Infrared Blackbody Source Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.3.5 Santa Barbara Infrared Recent Developments/Updates

8.3.6 Santa Barbara Infrared Competitive Strengths & Weaknesses

8.4 Infrared Systems Development Corporation

8.4.1 Infrared Systems Development Corporation Details

8.4.2 Infrared Systems Development Corporation Major Business

8.4.3 Infrared Systems Development Corporation Infrared Blackbody Source Product and Services

8.4.4 Infrared Systems Development Corporation Infrared Blackbody Source Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.4.5 Infrared Systems Development Corporation Recent Developments/Updates

8.4.6 Infrared Systems Development Corporation Competitive Strengths & Weaknesses

8.5 Isothermal Technology

8.5.1 Isothermal Technology Details

8.5.2 Isothermal Technology Major Business

8.5.3 Isothermal Technology Infrared Blackbody Source Product and Services

8.5.4 Isothermal Technology Infrared Blackbody Source Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.5.5 Isothermal Technology Recent Developments/Updates

8.5.6 Isothermal Technology Competitive Strengths & Weaknesses

8.6 Land Instruments International

8.6.1 Land Instruments International Details

8.6.2 Land Instruments International Major Business

8.6.3 Land Instruments International Infrared Blackbody Source Product and Services

8.6.4 Land Instruments International Infrared Blackbody Source Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.6.5 Land Instruments International Recent Developments/Updates

8.6.6 Land Instruments International Competitive Strengths & Weaknesses

8.7 Fluke

- 8.7.1 Fluke Details
- 8.7.2 Fluke Major Business
- 8.7.3 Fluke Infrared Blackbody Source Product and Services
- 8.7.4 Fluke Infrared Blackbody Source Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.7.5 Fluke Recent Developments/Updates
- 8.7.6 Fluke Competitive Strengths & Weaknesses
- 8.8 HEITRONICS Infrarot Messtechnik
 - 8.8.1 HEITRONICS Infrarot Messtechnik Details
 - 8.8.2 HEITRONICS Infrarot Messtechnik Major Business
 - 8.8.3 HEITRONICS Infrarot Messtechnik Infrared Blackbody Source Product and Services
 - 8.8.4 HEITRONICS Infrarot Messtechnik Infrared Blackbody Source Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.8.5 HEITRONICS Infrarot Messtechnik Recent Developments/Updates
 - 8.8.6 HEITRONICS Infrarot Messtechnik Competitive Strengths & Weaknesses
- 8.9 Advanced Energy Industries
 - 8.9.1 Advanced Energy Industries Details
 - 8.9.2 Advanced Energy Industries Major Business
 - 8.9.3 Advanced Energy Industries Infrared Blackbody Source Product and Services
 - 8.9.4 Advanced Energy Industries Infrared Blackbody Source Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.9.5 Advanced Energy Industries Recent Developments/Updates
 - 8.9.6 Advanced Energy Industries Competitive Strengths & Weaknesses
- 8.10 CHINO
 - 8.10.1 CHINO Details
 - 8.10.2 CHINO Major Business
 - 8.10.3 CHINO Infrared Blackbody Source Product and Services
 - 8.10.4 CHINO Infrared Blackbody Source Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.10.5 CHINO Recent Developments/Updates
 - 8.10.6 CHINO Competitive Strengths & Weaknesses
- 8.11 Tempsens Instruments
 - 8.11.1 Tempsens Instruments Details
 - 8.11.2 Tempsens Instruments Major Business
 - 8.11.3 Tempsens Instruments Infrared Blackbody Source Product and Services
 - 8.11.4 Tempsens Instruments Infrared Blackbody Source Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.11.5 Tempsens Instruments Recent Developments/Updates

- 8.11.6 Tempsens Instruments Competitive Strengths & Weaknesses
- 8.12 Nagman Instruments
 - 8.12.1 Nagman Instruments Details
 - 8.12.2 Nagman Instruments Major Business
 - 8.12.3 Nagman Instruments Infrared Blackbody Source Product and Services
 - 8.12.4 Nagman Instruments Infrared Blackbody Source Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.12.5 Nagman Instruments Recent Developments/Updates
 - 8.12.6 Nagman Instruments Competitive Strengths & Weaknesses
- 8.13 Electronic Development Laboratories
 - 8.13.1 Electronic Development Laboratories Details
 - 8.13.2 Electronic Development Laboratories Major Business
 - 8.13.3 Electronic Development Laboratories Infrared Blackbody Source Product and Services
 - 8.13.4 Electronic Development Laboratories Infrared Blackbody Source Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.13.5 Electronic Development Laboratories Recent Developments/Updates
 - 8.13.6 Electronic Development Laboratories Competitive Strengths & Weaknesses
- 8.14 INFRAMET
 - 8.14.1 INFRAMET Details
 - 8.14.2 INFRAMET Major Business
 - 8.14.3 INFRAMET Infrared Blackbody Source Product and Services
 - 8.14.4 INFRAMET Infrared Blackbody Source Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.14.5 INFRAMET Recent Developments/Updates
 - 8.14.6 INFRAMET Competitive Strengths & Weaknesses
- 8.15 Sensortherm
 - 8.15.1 Sensortherm Details
 - 8.15.2 Sensortherm Major Business
 - 8.15.3 Sensortherm Infrared Blackbody Source Product and Services
 - 8.15.4 Sensortherm Infrared Blackbody Source Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.15.5 Sensortherm Recent Developments/Updates
 - 8.15.6 Sensortherm Competitive Strengths & Weaknesses
- 8.16 Guangzhou Riqi Electronics Co., Ltd.
 - 8.16.1 Guangzhou Riqi Electronics Co., Ltd. Details
 - 8.16.2 Guangzhou Riqi Electronics Co., Ltd. Major Business
 - 8.16.3 Guangzhou Riqi Electronics Co., Ltd. Infrared Blackbody Source Product and Services

8.16.4 Guangzhou Riqi Electronics Co., Ltd. Infrared Blackbody Source Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.16.5 Guangzhou Riqi Electronics Co., Ltd. Recent Developments/Updates

8.16.6 Guangzhou Riqi Electronics Co., Ltd. Competitive Strengths & Weaknesses

8.17 Tai'an Demei Mechanical and Electrical Equipment Co., Ltd.

8.17.1 Tai'an Demei Mechanical and Electrical Equipment Co., Ltd. Details

8.17.2 Tai'an Demei Mechanical and Electrical Equipment Co., Ltd. Major Business

8.17.3 Tai'an Demei Mechanical and Electrical Equipment Co., Ltd. Infrared Blackbody Source Product and Services

8.17.4 Tai'an Demei Mechanical and Electrical Equipment Co., Ltd. Infrared Blackbody Source Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.17.5 Tai'an Demei Mechanical and Electrical Equipment Co., Ltd. Recent Developments/Updates

8.17.6 Tai'an Demei Mechanical and Electrical Equipment Co., Ltd. Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 Infrared Blackbody Source Industry Chain

9.2 Infrared Blackbody Source Upstream Analysis

9.2.1 Infrared Blackbody Source Core Raw Materials

9.2.2 Main Manufacturers of Infrared Blackbody Source Core Raw Materials

9.3 Midstream Analysis

9.4 Downstream Analysis

9.5 Infrared Blackbody Source Production Mode

9.6 Infrared Blackbody Source Procurement Model

9.7 Infrared Blackbody Source Industry Sales Model and Sales Channels

9.7.1 Infrared Blackbody Source Sales Model

9.7.2 Infrared Blackbody Source Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

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

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

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

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

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

Table 6. World Infrared Blackbody Source Production by Region (2021-2026) & (Units)

Table 7. World Infrared Blackbody Source Production by Region (2027-2032) & (Units)

Table 8. World Infrared Blackbody Source Production Market Share by Region (2021-2026)

Table 9. World Infrared Blackbody Source Production Market Share by Region (2027-2032)

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

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

Table 12. Infrared Blackbody Source Major Market Trends

Table 13. World Infrared Blackbody Source Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Infrared Blackbody Source Consumption by Region (2021-2026) & (Units)

Table 15. World Infrared Blackbody Source Consumption Forecast by Region (2027-2032) & (Units)

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

Table 17. Production Value Market Share of Key Infrared Blackbody Source Producers in 2025

Table 18. World Infrared Blackbody Source Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Infrared Blackbody Source Producers in 2025

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

Table 21. Global Infrared Blackbody Source Company Evaluation Quadrant

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

Table 23. Head Office and Infrared Blackbody Source Production Site of Key Manufacturer

Table 24. Infrared Blackbody Source Market: Company Product Type Footprint

Table 25. Infrared Blackbody Source Market: Company Product Application Footprint

Table 26. Infrared Blackbody Source Competitive Factors

Table 27. Infrared Blackbody Source New Entrant and Capacity Expansion Plans

Table 28. Infrared Blackbody Source Mergers & Acquisitions Activity

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

Table 30. United States VS China Infrared Blackbody Source Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Infrared Blackbody Source Consumption Comparison, (2021 & 2025 & 2032) & (Units)

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

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

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

Table 35. United States Based Manufacturers Infrared Blackbody Source Production (2021-2026) & (Units)

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

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

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

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

Table 40. China Based Manufacturers Infrared Blackbody Source Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Infrared Blackbody Source Production Market Share (2021-2026)

Table 42. Rest of World Based Infrared Blackbody Source Manufacturers, Headquarters

and Production Site (State, Country)

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

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

Table 45. Rest of World Based Manufacturers Infrared Blackbody Source Production, (2021-2026) & (Units)

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

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

Table 48. World Infrared Blackbody Source Production by Type (2021-2026) & (Units)

Table 49. World Infrared Blackbody Source Production by Type (2027-2032) & (Units)

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

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

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

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

Table 54. World Infrared Blackbody Source Production Value by Operating Temperature, (USD Million), 2021 & 2025 & 2032

Table 55. World Infrared Blackbody Source Production by Operating Temperature (2021-2026) & (Units)

Table 56. World Infrared Blackbody Source Production by Operating Temperature (2027-2032) & (Units)

Table 57. World Infrared Blackbody Source Production Value by Operating Temperature (2021-2026) & (USD Million)

Table 58. World Infrared Blackbody Source Production Value by Operating Temperature (2027-2032) & (USD Million)

Table 59. World Infrared Blackbody Source Average Price by Operating Temperature (2021-2026) & (US\$/Unit)

Table 60. World Infrared Blackbody Source Average Price by Operating Temperature (2027-2032) & (US\$/Unit)

Table 61. World Infrared Blackbody Source Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Infrared Blackbody Source Production by Application (2021-2026) & (Units)

Table 63. World Infrared Blackbody Source Production by Application (2027-2032) & (Units)

Table 64. World Infrared Blackbody Source Production Value by Application (2021-2026) & (USD Million)

Table 65. World Infrared Blackbody Source Production Value by Application (2027-2032) & (USD Million)

Table 66. World Infrared Blackbody Source Average Price by Application (2021-2026) & (US\$/Unit)

Table 67. World Infrared Blackbody Source Average Price by Application (2027-2032) & (US\$/Unit)

Table 68. CI Systems Basic Information, Manufacturing Base and Competitors

Table 69. CI Systems Major Business

Table 70. CI Systems Infrared Blackbody Source Product and Services

Table 71. CI Systems Infrared Blackbody Source Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. CI Systems Recent Developments/Updates

Table 73. CI Systems Competitive Strengths & Weaknesses

Table 74. HGH Infrared Systems Basic Information, Manufacturing Base and Competitors

Table 75. HGH Infrared Systems Major Business

Table 76. HGH Infrared Systems Infrared Blackbody Source Product and Services

Table 77. HGH Infrared Systems Infrared Blackbody Source Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. HGH Infrared Systems Recent Developments/Updates

Table 79. HGH Infrared Systems Competitive Strengths & Weaknesses

Table 80. Santa Barbara Infrared Basic Information, Manufacturing Base and Competitors

Table 81. Santa Barbara Infrared Major Business

Table 82. Santa Barbara Infrared Infrared Blackbody Source Product and Services

Table 83. Santa Barbara Infrared Infrared Blackbody Source Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Santa Barbara Infrared Recent Developments/Updates

Table 85. Santa Barbara Infrared Competitive Strengths & Weaknesses

Table 86. Infrared Systems Development Corporation Basic Information, Manufacturing Base and Competitors

Table 87. Infrared Systems Development Corporation Major Business

Table 88. Infrared Systems Development Corporation Infrared Blackbody Source

Product and Services

Table 89. Infrared Systems Development Corporation Infrared Blackbody Source Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. Infrared Systems Development Corporation Recent Developments/Updates

Table 91. Infrared Systems Development Corporation Competitive Strengths & Weaknesses

Table 92. Isothermal Technology Basic Information, Manufacturing Base and Competitors

Table 93. Isothermal Technology Major Business

Table 94. Isothermal Technology Infrared Blackbody Source Product and Services

Table 95. Isothermal Technology Infrared Blackbody Source Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 96. Isothermal Technology Recent Developments/Updates

Table 97. Isothermal Technology Competitive Strengths & Weaknesses

Table 98. Land Instruments International Basic Information, Manufacturing Base and Competitors

Table 99. Land Instruments International Major Business

Table 100. Land Instruments International Infrared Blackbody Source Product and Services

Table 101. Land Instruments International Infrared Blackbody Source Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 102. Land Instruments International Recent Developments/Updates

Table 103. Land Instruments International Competitive Strengths & Weaknesses

Table 104. Fluke Basic Information, Manufacturing Base and Competitors

Table 105. Fluke Major Business

Table 106. Fluke Infrared Blackbody Source Product and Services

Table 107. Fluke Infrared Blackbody Source Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 108. Fluke Recent Developments/Updates

Table 109. Fluke Competitive Strengths & Weaknesses

Table 110. HEITRONICS Infrarot Messtechnik Basic Information, Manufacturing Base and Competitors

Table 111. HEITRONICS Infrarot Messtechnik Major Business

Table 112. HEITRONICS Infrarot Messtechnik Infrared Blackbody Source Product and Services

Table 113. HEITRONICS Infrarot Messtechnik Infrared Blackbody Source Production

(Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. HEITRONICS Infrarot Messtechnik Recent Developments/Updates

Table 115. HEITRONICS Infrarot Messtechnik Competitive Strengths & Weaknesses

Table 116. Advanced Energy Industries Basic Information, Manufacturing Base and Competitors

Table 117. Advanced Energy Industries Major Business

Table 118. Advanced Energy Industries Infrared Blackbody Source Product and Services

Table 119. Advanced Energy Industries Infrared Blackbody Source Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. Advanced Energy Industries Recent Developments/Updates

Table 121. Advanced Energy Industries Competitive Strengths & Weaknesses

Table 122. CHINO Basic Information, Manufacturing Base and Competitors

Table 123. CHINO Major Business

Table 124. CHINO Infrared Blackbody Source Product and Services

Table 125. CHINO Infrared Blackbody Source Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. CHINO Recent Developments/Updates

Table 127. CHINO Competitive Strengths & Weaknesses

Table 128. Tempsens Instruments Basic Information, Manufacturing Base and Competitors

Table 129. Tempsens Instruments Major Business

Table 130. Tempsens Instruments Infrared Blackbody Source Product and Services

Table 131. Tempsens Instruments Infrared Blackbody Source Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 132. Tempsens Instruments Recent Developments/Updates

Table 133. Tempsens Instruments Competitive Strengths & Weaknesses

Table 134. Nagman Instruments Basic Information, Manufacturing Base and Competitors

Table 135. Nagman Instruments Major Business

Table 136. Nagman Instruments Infrared Blackbody Source Product and Services

Table 137. Nagman Instruments Infrared Blackbody Source Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 138. Nagman Instruments Recent Developments/Updates

Table 139. Nagman Instruments Competitive Strengths & Weaknesses

Table 140. Electronic Development Laboratories Basic Information, Manufacturing Base and Competitors

Table 141. Electronic Development Laboratories Major Business

Table 142. Electronic Development Laboratories Infrared Blackbody Source Product and Services

Table 143. Electronic Development Laboratories Infrared Blackbody Source Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 144. Electronic Development Laboratories Recent Developments/Updates

Table 145. Electronic Development Laboratories Competitive Strengths & Weaknesses

Table 146. INFRAMET Basic Information, Manufacturing Base and Competitors

Table 147. INFRAMET Major Business

Table 148. INFRAMET Infrared Blackbody Source Product and Services

Table 149. INFRAMET Infrared Blackbody Source Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 150. INFRAMET Recent Developments/Updates

Table 151. INFRAMET Competitive Strengths & Weaknesses

Table 152. Sensortherm Basic Information, Manufacturing Base and Competitors

Table 153. Sensortherm Major Business

Table 154. Sensortherm Infrared Blackbody Source Product and Services

Table 155. Sensortherm Infrared Blackbody Source Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 156. Sensortherm Recent Developments/Updates

Table 157. Sensortherm Competitive Strengths & Weaknesses

Table 158. Guangzhou Riqi Electronics Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 159. Guangzhou Riqi Electronics Co., Ltd. Major Business

Table 160. Guangzhou Riqi Electronics Co., Ltd. Infrared Blackbody Source Product and Services

Table 161. Guangzhou Riqi Electronics Co., Ltd. Infrared Blackbody Source Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 162. Guangzhou Riqi Electronics Co., Ltd. Recent Developments/Updates

Table 163. Guangzhou Riqi Electronics Co., Ltd. Competitive Strengths & Weaknesses

Table 164. Tai'an Demei Mechanical and Electrical Equipment Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 165. Tai'an Demei Mechanical and Electrical Equipment Co., Ltd. Major Business

Table 166. Tai'an Demei Mechanical and Electrical Equipment Co., Ltd. Infrared

Blackbody Source Product and Services

Table 167. Tai'an Demei Mechanical and Electrical Equipment Co., Ltd. Infrared Blackbody Source Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 168. Tai'an Demei Mechanical and Electrical Equipment Co., Ltd. Recent Developments/Updates

Table 169. Tai'an Demei Mechanical and Electrical Equipment Co., Ltd. Competitive Strengths & Weaknesses

Table 170. Global Key Players of Infrared Blackbody Source Upstream (Raw Materials)

Table 171. Global Infrared Blackbody Source Typical Customers

Table 172. Infrared Blackbody Source Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Infrared Blackbody Source Picture

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

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

Figure 4. World Infrared Blackbody Source Production (2021-2032) & (Units)

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

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

Figure 7. World Infrared Blackbody Source Production Market Share by Region (2021-2032)

Figure 8. North America Infrared Blackbody Source Production (2021-2032) & (Units)

Figure 9. Europe Infrared Blackbody Source Production (2021-2032) & (Units)

Figure 10. China Infrared Blackbody Source Production (2021-2032) & (Units)

Figure 11. Japan Infrared Blackbody Source Production (2021-2032) & (Units)

Figure 12. India Infrared Blackbody Source Production (2021-2032) & (Units)

Figure 13. Infrared Blackbody Source Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Infrared Blackbody Source Consumption (2021-2032) & (Units)

Figure 16. World Infrared Blackbody Source Consumption Market Share by Region (2021-2032)

Figure 17. United States Infrared Blackbody Source Consumption (2021-2032) & (Units)

Figure 18. China Infrared Blackbody Source Consumption (2021-2032) & (Units)

Figure 19. Europe Infrared Blackbody Source Consumption (2021-2032) & (Units)

Figure 20. Japan Infrared Blackbody Source Consumption (2021-2032) & (Units)

Figure 21. South Korea Infrared Blackbody Source Consumption (2021-2032) & (Units)

Figure 22. ASEAN Infrared Blackbody Source Consumption (2021-2032) & (Units)

Figure 23. India Infrared Blackbody Source Consumption (2021-2032) & (Units)

Figure 24. Producer Shipments of Infrared Blackbody Source by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Infrared Blackbody Source Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Infrared Blackbody Source Markets in 2025

Figure 27. United States VS China: Infrared Blackbody Source Production Value Market

Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Infrared Blackbody Source Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Infrared Blackbody Source Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Infrared Blackbody Source Production Market Share 2025

Figure 31. China Based Manufacturers Infrared Blackbody Source Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Infrared Blackbody Source Production Market Share 2025

Figure 33. World Infrared Blackbody Source Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Infrared Blackbody Source Production Value Market Share by Type in 2025

Figure 35. Cavity Blackbody

Figure 36. Area Blackbody

Figure 37. World Infrared Blackbody Source Production Market Share by Type (2021-2032)

Figure 38. World Infrared Blackbody Source Production Value Market Share by Type (2021-2032)

Figure 39. World Infrared Blackbody Source Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World Infrared Blackbody Source Production Value by Operating Temperature, (USD Million), 2021 & 2025 & 2032

Figure 41. World Infrared Blackbody Source Production Value Market Share by Operating Temperature in 2025

Figure 42. Low-Temperature Blackbody (-40?150?C)

Figure 43. Medium-Temperature Blackbody (150?600?C)

Figure 44. High-Temperature Blackbody (Above 600?C)

Figure 45. World Infrared Blackbody Source Production Market Share by Operating Temperature (2021-2032)

Figure 46. World Infrared Blackbody Source Production Value Market Share by Operating Temperature (2021-2032)

Figure 47. World Infrared Blackbody Source Average Price by Operating Temperature (2021-2032) & (US\$/Unit)

Figure 48. World Infrared Blackbody Source Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 49. World Infrared Blackbody Source Production Value Market Share by

Application in 2025

Figure 50. Infrared Temperature Measurement Calibration

Figure 51. Thermal Imaging Equipment Calibration

Figure 52. Infrared Detector Testing

Figure 53. Optoelectronic System Calibration

Figure 54. Aerospace and Remote Sensing Calibration

Figure 55. Other

Figure 56. World Infrared Blackbody Source Production Market Share by Application (2021-2032)

Figure 57. World Infrared Blackbody Source Production Value Market Share by Application (2021-2032)

Figure 58. World Infrared Blackbody Source Average Price by Application (2021-2032) & (US\$/Unit)

Figure 59. Infrared Blackbody Source Industry Chain

Figure 60. Infrared Blackbody Source Procurement Model

Figure 61. Infrared Blackbody Source Sales Model

Figure 62. Infrared Blackbody Source Sales Channels, Direct Sales, and Distribution

Figure 63. Methodology

Figure 64. Research Process and Data Source

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