

Global Infrared Blackbody Source Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Infrared Blackbody Source market size was valued at US\$ 182 million in 2025 and is forecast to a readjusted size of US\$ 280 million by 2032 with a CAGR of 6.3% during review period.

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 is a detailed and comprehensive analysis for global Infrared Blackbody Source market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Infrared Blackbody Source market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Infrared Blackbody Source market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Infrared Blackbody Source market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Infrared Blackbody Source market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Infrared Blackbody Source

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Infrared Blackbody Source market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Infrared Blackbody Source market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Cavity Blackbody

Area Blackbody

Market segment by Operating Temperature

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

Medium-Temperature Blackbody (150?600?C)

High-Temperature Blackbody (Above 600?C)

Market segment by Application

Infrared Temperature Measurement Calibration

Thermal Imaging Equipment Calibration

Infrared Detector Testing

Optoelectronic System Calibration

Aerospace and Remote Sensing Calibration

Other

Major players covered

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.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Infrared Blackbody Source product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Infrared Blackbody Source, with price, sales quantity, revenue, and global market share of Infrared Blackbody Source from 2021 to 2026.

Chapter 3, the Infrared Blackbody Source competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Infrared Blackbody Source breakdown data are shown at the regional

level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Infrared Blackbody Source market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Infrared Blackbody Source.

Chapter 14 and 15, to describe Infrared Blackbody Source sales channel, distributors, customers, research findings and conclusion.

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