

# Global Standard Blackbody Radiation Calibration 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 Standard Blackbody Radiation Calibration Source market size was valued at US\$ 191 million in 2025 and is forecast to a readjusted size of US\$ 293 million by 2032 with a CAGR of 6.3% during review period.

The standard blackbody radiation calibration source is a high-precision radiation reference device used for the calibration and temperature traceability of infrared measurement equipment. By simulating the uniform thermal radiation emitted by an ideal blackbody, it provides a calibration reference with known temperature and controllable radiation characteristics for instruments such as infrared thermal imagers, infrared thermometers, and spectroradiometers. Its core features are a high-emissivity black cavity structure and a highly stable temperature control system, enabling predictable radiance output over a wide temperature range and achieving standardized temperature transfer. It is widely used in metrology verification, scientific research experiments, aerospace, and infrared detection. In 2025, sales reached 55,000 units, with an average price of \$3,250, total production capacity of 60,000 units, and a gross profit margin of 45%.

The global market for standard blackbody radiation calibration sources is experiencing steady growth, driven by the rapid development of infrared imaging, unmanned observation, and industrial automation. With the widespread adoption of infrared thermal imagers in power line inspection, security monitoring, intelligent manufacturing, and medical thermal imaging, the number of instruments is increasing rapidly, leading to a corresponding expansion in demand for high-precision radiation calibration equipment. Furthermore, high-end applications such as aerospace remote sensing,

military infrared detection, and quantum optics research are continuously raising the requirements for the temperature stability, emissivity accuracy, and radiation uniformity of blackbody sources, making high-end traceable calibration sources a key basic equipment and driving continuous market upgrades.

On the other hand, the strengthening of infrared temperature traceability systems by metrology systems in various countries is also bringing long-term growth potential to the industry. Metrology institutes in China, the United States, Europe, and other regions are continuously expanding their infrared radiation metrology capabilities, driving research institutions and testing organizations to increase their procurement of standard blackbody sources. Meanwhile, in emerging scenarios such as chip packaging and testing, UAV infrared payload calibration, and semiconductor process monitoring, the demand for portable, high-temperature, and low-noise blackbody sources is rapidly increasing. This is causing the market to expand rapidly from 'laboratory-type' to 'engineering-based, intelligent, and field-deployable' products. In the future, product competition will focus on temperature control accuracy, intelligent calibration algorithms, remote monitoring functions, and system integration.

This report is a detailed and comprehensive analysis for global Standard Blackbody Radiation Calibration 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 Standard Blackbody Radiation Calibration Source market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

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

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

Global Standard Blackbody Radiation Calibration Source market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 Standard Blackbody Radiation Calibration 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 Standard Blackbody Radiation Calibration 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 AMETEK, Accurate Sensors Technologies Pvt Ltd, AOIP, CHINO CORPORATION, Fluke Calibration, Optris, Isotech, Gooch & Housego, Tempsens, Sensortherm, etc.

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

### **Market Segmentation**

Standard Blackbody Radiation Calibration 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

Low Temperature Extended Area Blackbodies

Double Extended Area Blackbody

Others

#### Market segment by Temperature Range

Low-Temperature Blackbody

Medium-Temperature Blackbody

High-Temperature Blackbody

#### Market segment by Control Method

Digital Control Blackbody

Manual-Control Blackbody

#### Market segment by Application

Infrared Thermometer & Thermal Imager Manufacturing

Petrochemical & Process Industries

Aerospace Industry

Experimental Science

Others

#### Major players covered

AMETEK

Accurate Sensors Technologies Pvt Ltd

AOIP

CHINO CORPORATION

Fluke Calibration

Optris

Isotech

Gooch & Housego

Tempens

Sensortherm

Calex Electronics

Heimann GmbH

Infrared Systems Development Corporation (ISDC)

Omega Engineering

Bodkin Design & Engineering, LLC

CI Systems Inc.

DIAS Infrared

HGH Infrared Systems

Advanced Energy

Newport Corporation

Process Sensors

Nagman

Palmer Wahl Instrumentation Group

Santa Barbara Infrared, Inc.

Societe Europeenne De Systemes Optiques (SESO)

Boston Electronics

Taian Demei Electromechanical Equipment Co., LTD.

Shanghai Lrel Instrument 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 Standard Blackbody Radiation Calibration Source product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the Standard Blackbody Radiation Calibration Source competitive situation,

sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Standard Blackbody Radiation Calibration 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 Standard Blackbody Radiation Calibration 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 Standard Blackbody Radiation Calibration Source.

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

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Figure 91. Standard Blackbody Radiation Calibration Source Industrial Chain

Figure 92. Sales Channel: Direct to End-User vs Distributors

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