

Global Standard Blackbody Radiation Calibration Source Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Standard Blackbody Radiation Calibration Source market size is expected to reach \$ 293 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

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 studies the global Standard Blackbody Radiation Calibration Source production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Standard Blackbody Radiation Calibration 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 Standard Blackbody Radiation Calibration Source that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Standard Blackbody Radiation Calibration Source total production and demand, 2021-2032, (K Units)

Global Standard Blackbody Radiation Calibration Source total production value, 2021-2032, (USD Million)

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

Global Standard Blackbody Radiation Calibration Source consumption by region & country, CAGR, 2021-2032 & (K Units)

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

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

Global Standard Blackbody Radiation Calibration Source production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Standard Blackbody Radiation Calibration Source production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Standard Blackbody Radiation Calibration 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 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.

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

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Standard Blackbody Radiation Calibration Source Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Standard Blackbody Radiation Calibration Source Market, Segmentation by Type:

Low Temperature Extended Area Blackbodies

Double Extended Area Blackbody

Others

Global Standard Blackbody Radiation Calibration Source Market, Segmentation by Temperature Range:

Low-Temperature Blackbody

Medium-Temperature Blackbody

High-Temperature Blackbody

Global Standard Blackbody Radiation Calibration Source Market, Segmentation by Control Method:

Digital Control Blackbody

Manual-Control Blackbody

Global Standard Blackbody Radiation Calibration Source Market, Segmentation by Application:

Infrared Thermometer & Thermal Imager Manufacturing

Petrochemical & Process Industries

Aerospace Industry

Experimental Science

Others

Companies Profiled:

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.

Key Questions Answered:

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

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