

# Global Black Body Radiation Source Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GDA3260F6367EN.html>

Date: January 2026

Pages: 192

Price: US\$ 4,480.00 (Single User License)

ID: GDA3260F6367EN

## Abstracts

The global Black Body Radiation Source market size is expected to reach \$ 292 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

A blackbody radiation source is a dedicated radiation reference light source or heat source device used to approximate an 'ideal blackbody.' It achieves this by heating a cavity or surface to a stable, controllable temperature, causing it to emit electromagnetic radiation with a definite spectral distribution and radiance according to Planck's law at that temperature. Since the radiation characteristics of an ideal blackbody at a given temperature are unique and calculable, blackbody radiation sources fabricated in engineering (such as hollow blackbodies or radiation surfaces coated with high emissivity materials) become calibration and standard sources for devices such as infrared thermometers, radiation pyrometers, thermal imagers, and photoelectric detectors, and are widely used in fields such as temperature measurement, infrared imaging calibration, remote sensing calibration, and optical measurement. 2025 sales volume: 55,000 units, average price: \$3,250, total production capacity: 65,000 units, gross margin: 45%.

From the demand side, blackbody radiation sources are 'small but essential' basic metrology and calibration equipment. Their typical characteristic is that while their individual value is not exorbitant, they are irreplaceable in the industry chain. Wherever there are infrared thermometers, radiation pyrometers, thermal imagers, and infrared detectors, periodic radiation calibration is unavoidable: online infrared temperature measurement systems in high-temperature industries such as steel, building materials, power, and petrochemicals; thermal field monitoring in automotive/power battery/photovoltaic/semiconductor manufacturing; medical infrared body temperature screening; security and industrial thermal imaging; and ground testing of space remote sensing payloads all require blackbody radiation sources as a 'standard ruler.' With the

increasing automation of industry and the continued rise in the penetration rate of infrared and thermal imaging sensors across various sectors, the market for blackbody radiation sources, while unlikely to experience the explosive growth seen in end-user devices, will steadily grow passively alongside sensor and infrared applications, exhibiting typical characteristics of being a 'niche, essential, and high-end' market.

From a supply and competitive perspective, blackbody radiation sources represent a niche market with moderate technological barriers, very detailed process requirements, small production volumes, and extreme sensitivity to reliability. Globally, the strongest players are often infrared metrology instrument manufacturers, temperature metrology/calibration equipment manufacturers, and a few small and medium-sized enterprises specializing in radiation standard sources. These companies rely on long-term process accumulation (cavity design, temperature uniformity control, emissivity coating, long-term stability) and a robust metrological traceability system, making it difficult for 'general instrument manufacturers' to easily encroach on their market share. In reality, many end-users are more concerned with: whether the source can cover their required temperature range (e.g., room temperature, medical body temperature range, high-temperature industrial areas), whether the radiation surface uniformity and emissivity have authoritative calibration certificates, and whether it can be easily integrated into automated calibration stations in laboratories/production lines. Therefore, the two types of players have the best chance: one type focuses on high-end applications such as metrology laboratories and scientific research/aerospace, taking the high-price route of 'high precision + large temperature range + complete traceability report'; the other type targets infrared temperature measurement and thermal imager manufacturers, providing a package of solutions with standardized blackbody sources and automatic calibration software interfaces, deeply embedding itself into their production lines and after-sales service systems, and obtaining stable supporting orders and update needs.

This report studies the global Black Body Radiation Source production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

Global Black Body Radiation Source total production and demand, 2021-2032, (K Units)

Global Black Body Radiation Source total production value, 2021-2032, (USD Million)

Global Black Body Radiation Source production by region & country, production, value,

CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Black Body Radiation Source consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Black Body Radiation Source domestic production, consumption, key domestic manufacturers and share

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

Global Black Body Radiation Source production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Black Body Radiation Source production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Black Body Radiation 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 Black Body Radiation 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 Black Body Radiation Source Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Black Body Radiation Source Market, Segmentation by Type:

Cavity Blackbody

Plane Blackbody

IR Panel Blackbody

#### Global Black Body Radiation Source Market, Segmentation by Temperature Range:

Low-Temperature Blackbody

Medium-Temperature Blackbody

High-Temperature Blackbody

#### Global Black Body Radiation Source Market, Segmentation by Control Method:

Digital Control Blackbody

Manual-Control Blackbody

#### Global Black Body Radiation 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 Black Body Radiation Source market?
2. What is the demand of the global Black Body Radiation Source market?
3. What is the year over year growth of the global Black Body Radiation Source market?
4. What is the production and production value of the global Black Body Radiation Source market?
5. Who are the key producers in the global Black Body Radiation Source market?
6. What are the growth factors driving the market demand?

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