

Global Blackbody Calibrator Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Blackbody Calibrator 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 calibrator is a high-precision temperature reference device used for calibrating infrared measurement and thermal imaging equipment. Its principle is to utilize a cavity with radiation characteristics close to that of an ideal blackbody to generate stable and traceable infrared radiation energy with known emissivity at a given temperature. By aligning an infrared camera, infrared thermometer, or radiometer with the blackbody calibrator, temperature reading deviations, non-uniformity, and response linearity of the equipment can be corrected, thereby ensuring the accuracy and consistency of measurement results. Blackbody calibrators are widely used in metrology, aerospace, military, scientific research experiments, and industrial online temperature measurement, and are a core reference device in infrared temperature measurement systems. Sales in 2025 were 55,000 units, with an average price of \$3,250, total production capacity of 65,000 units, and a gross profit margin of 45%. With the penetration of infrared temperature measurement and thermal imaging technologies into industrial online monitoring, automated production lines, unmanned systems, and security fields, the role of blackbody calibrators is no longer limited to laboratory metrological calibration, but is gradually entering the equipment manufacturing and maintenance stages, becoming the infrastructure for the long-term stable operation of the entire infrared system. This trend is driving blackbody calibrators to evolve towards higher stability, faster temperature control response, and automated, online calibration, and market demand is also expanding from 'small-scale high-precision' to 'medium-precision, scalable deployment.'

Different applications have significantly different requirements for the core indicators of blackbody calibrators: metrology and military applications focus more on absolute accuracy, emissivity traceability, and long-term drift control, while industrial and

consumer infrared applications prioritize cost, size, integration, and ease of maintenance. This has led to the gradual formation of a dual-track structure in the industry, with 'high-end metrology-grade niche market' and 'industrial/commercial scale market' running in parallel. The focus of competition among manufacturers has also shifted from simple temperature accuracy to system adaptability, service capabilities, and scenario understanding.

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

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

Highlights and key features of the study

Global Blackbody Calibrator total production and demand, 2021-2032, (K Units)

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

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

Global Blackbody Calibrator consumption by region & country, CAGR, 2021-2032 & (K Units)

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

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

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

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

This report profiles key players in the global Blackbody Calibrator 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, Tempensens, 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 Blackbody Calibrator 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 Blackbody Calibrator Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Blackbody Calibrator Market, Segmentation by Type:

Cavity Blackbody

Plane Blackbody

IR Panel Blackbody

Global Blackbody Calibrator Market, Segmentation by Temperature Range:

Low-Temperature Blackbody

Medium-Temperature Blackbody

High-Temperature Blackbody

Global Blackbody Calibrator Market, Segmentation by Control Method:

Digital Control Blackbody

Manual-Control Blackbody

Global Blackbody Calibrator 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

Tempsens

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

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