

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

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Abstracts

The global Blackbody Temperature Calibration Source market size is expected to reach \$ 891 million by 2032, rising at a market growth of 9.8% CAGR during the forecast period (2026-2032).

A Blackbody Temperature Calibration Source is a standard radiator used to calibrate infrared thermometers and thermal imagers. By simulating stable infrared radiation outputs at various temperatures, it provides measuring instruments with a known and traceable temperature reference. Typically, it employs high-emissivity materials and precision temperature control systems to ensure that its surface radiation characteristics closely approximate those of an ideal blackbody, thereby guaranteeing a high degree of consistency between the emitted radiation energy and the set temperature. This device is widely utilized in industrial temperature measurement, metrology and calibration, aerospace, and scientific research fields to enhance the accuracy and consistency of infrared measurements. In 2025, projected sales volume stands at 85,000 units, with an average selling price of \$5,245, a total production capacity of 100,000 units, and a gross margin of 38%.

This report studies the global Blackbody Temperature Calibration Source production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Blackbody Temperature 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 Blackbody Temperature 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 Blackbody Temperature Calibration Source Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Blackbody Temperature Calibration Source Market, Segmentation by Type:

Cavity Blackbody

Plane Blackbody

IR Panel Blackbody

Global Blackbody Temperature Calibration Source Market, Segmentation by Temperature:

Low-Temperature Blackbody

Medium-Temperature Blackbody

High-Temperature Blackbody

Global Blackbody Temperature Calibration Source Market, Segmentation by Control Method:

Digital Control Blackbody

Manual-Control Blackbody

Global Blackbody Temperature 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

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

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