

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

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## Abstracts

The global Portable Blackbody Temperature Calibrator 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 portable blackbody temperature calibrator serves as a standard radiation source for infrared thermometers and thermal imaging systems. By simulating stable thermal radiation that closely approximates that of an ideal blackbody, it enables the precise calibration and verification of devices such as infrared thermometers and thermal imagers. Typically equipped with an adjustable temperature control system, highly stable heating and cooling modules, and a high-emissivity cavity structure, this device provides a standard temperature reference in both field and laboratory settings. Consequently, it facilitates the correction of measurement errors and enhances temperature measurement accuracy, finding widespread application in industrial inspection, scientific metrology, and the calibration of infrared equipment. 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 Portable Blackbody Temperature Calibrator production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Portable Blackbody Temperature Calibrator Market, Segmentation by Type:

Cavity Blackbody

Plane Blackbody

IR Panel Blackbody

#### Global Portable Blackbody Temperature Calibrator Market, Segmentation by Temperature:

Low-Temperature Blackbody

Medium-Temperature Blackbody

High-Temperature Blackbody

## Global Portable Blackbody Temperature Calibrator Market, Segmentation by Control Method:

Digital Control Blackbody

Manual-Control Blackbody

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

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