

Global Standard Infrared Calibration Source Market Growth 2025-2031

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Abstracts

The global Standard Infrared Calibration Source market size is predicted to grow from US\$ 1710 million in 2025 to US\$ 2840 million in 2031; it is expected to grow at a CAGR of 8.8% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

The radiation calibration source is an infrared radiator with a constant or variable temperature, which is used to adjust and calibrate the temperature scale in high temperature measurement systems, thermal imaging systems, heat flow measurement systems and spectral analysis systems. According to the mode of the calibration source, the single-point or multi-point temperature of an infrared detector and the temperature curve can be detected and recorded.

Radiation calibration sources are developing towards high precision, multi-spectrum, portability and environmental protection, especially in the fields of medicine, industry and nuclear power, where the demand is becoming increasingly diversified. The new generation of calibration sources pays more attention to stability and digital matching, and some alternatives such as X-ray calibration systems are gradually emerging to reduce the dependence on radioactive isotopes and meet increasingly stringent regulatory requirements.

In terms of price, traditional radioactive calibration sources such as Cs-137 and Co-60 generally range from ?5,000 to ?150,000 depending on the activity and packaging; while high-end X-ray adjustable calibration systems may cost more than ?300,000. The

price will also be affected by factors such as activity level, regulatory approval, and whether it is equipped with an automatic calibration platform.

United States market for Standard Infrared Calibration Source is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Standard Infrared Calibration Source is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Standard Infrared Calibration Source is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Standard Infrared Calibration Source players cover AMETEK, Accurate Sensors Technologies Pvt Ltd, AOIP, CHINO CORPORATION, Fluke Calibration, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the "Standard Infrared Calibration Source Industry Forecast" looks at past sales and reviews total world Standard Infrared Calibration Source sales in 2024, providing a comprehensive analysis by region and market sector of projected Standard Infrared Calibration Source sales for 2025 through 2031. With Standard Infrared Calibration Source sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Standard Infrared Calibration Source industry.

This Insight Report provides a comprehensive analysis of the global Standard Infrared Calibration Source landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Standard Infrared Calibration Source portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Standard Infrared Calibration Source market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Standard Infrared Calibration Source and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-

up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Standard Infrared Calibration Source.

This report presents a comprehensive overview, market shares, and growth opportunities of Standard Infrared Calibration Source market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Low Temperature Extended Area Blackbodies

Double Extended Area Blackbody

Others

Segmentation by Application:

Aerospace

Pharmaceutical

Power Generation

Semiconductor

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

AMETEK

Accurate Sensors Technologies Pvt Ltd

AOIP

CHINO CORPORATION

Fluke Calibration

Optris

Gooch & Housego

Tempsens

Sensortherm

Calex Electronics

Heimann GmbH

Bodkin Design & Engineering, LLC

CI Systems Inc.

HGH Infrared Systems

LumaSense Technologies, Inc., An Advanced Energy Company

Newport Corporation

Palmer Wahl Instrumentation Group

Santa Barbara Infrared, Inc.

Societe Europeenne De Systemes Optiques (SESO)

Hefei Kilo-Power Temperature Control System Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Standard Infrared Calibration Source market?

What factors are driving Standard Infrared Calibration Source market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Standard Infrared Calibration Source market opportunities vary by end market size?

How does Standard Infrared Calibration Source break out by Type, by Application?

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