

Global Thermal Infrared Radiometer Market Growth 2026-2032

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Abstracts

The global Thermal Infrared Radiometer market size is predicted to grow from US\$ 15.41 million in 2025 to US\$ 22.83 million in 2032; it is expected to grow at a CAGR of 5.8% from 2026 to 2032.

In 2025, global sales of Thermal Infrared Radiometer were approximately 4,500 sets, with an average global selling price of around US\$3,500 per set. The gross margin of major manufacturers in the industry was approximately 35%-55%.

Thermal Infrared Radiometer is an optoelectronic measurement instrument used to measure thermal infrared radiation signals from target objects. It mainly receives radiation emitted by land surface, water body, vegetation, cloud layer, or target surface in the mid-wave and long-wave thermal infrared bands, and derives parameters such as brightness temperature, surface temperature, spectral radiance, or radiant flux. Its typical operating bands include mid-wave thermal infrared at 3-5 μm and long-wave thermal infrared at 8-14 μm . Compared with ordinary infrared thermometer, Thermal Infrared Radiometer places greater emphasis on quantitative radiometric measurement, spectral response, calibration accuracy, and long-term stability, making it suitable for professional scenarios such as remote sensing, meteorology, environmental monitoring, and scientific metrology.

The upstream supply chain of Thermal Infrared Radiometer mainly includes infrared detector, optical window, optical filter, blackbody calibration source, temperature sensor, signal processing circuit, and precision structural component. The midstream segment consists of thermal infrared measurement instrument manufacturer, with key control points including spectral response, radiometric calibration, temperature drift, measurement accuracy, and environmental adaptability. Downstream applications

mainly include remote sensing and mapping, meteorology and environment, agriculture and ecology, oceanography and hydrology, and aerospace. The product is used for land surface temperature monitoring, vegetation canopy temperature observation, water surface temperature measurement, satellite remote sensing calibration and validation, and field radiometric observation.

United States market for Thermal Infrared Radiometer is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Thermal Infrared Radiometer is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Thermal Infrared Radiometer is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Thermal Infrared Radiometer players cover CIMEL Electronique, Apogee Instruments, Campbell Scientific, HEITRONICS, CI Systems, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Thermal Infrared Radiometer Industry Forecast" looks at past sales and reviews total world Thermal Infrared Radiometer sales in 2025, providing a comprehensive analysis by region and market sector of projected Thermal Infrared Radiometer sales for 2026 through 2032. With Thermal Infrared Radiometer sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Thermal Infrared Radiometer industry.

This Insight Report provides a comprehensive analysis of the global Thermal Infrared Radiometer 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 Thermal Infrared Radiometer portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Thermal Infrared Radiometer market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Thermal Infrared Radiometer 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 Thermal Infrared Radiometer.

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

Segmentation by Type:

Single-channel

Multi-channel

Segmentation by Usage Method:

Handheld Type

Fixed Type

Segmentation by Operating Wavelength:

Mid-wave Thermal Infrared(3-5 μm)

Long-wave Thermal Infrared(8-14 μm)

Segmentation by Application:

Remote Sensing and Mapping

Meteorology and Environment

Agriculture and Ecology

Oceanography and Hydrology

Aerospace

Other

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.

CIMEL Electronique

Apogee Instruments

Campbell Scientific

HEITRONICS

CI Systems

EKO Instruments

Hukseflux Thermal Sensors

OTT HydroMet

Wuhan Zhongke Nenghui Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Thermal Infrared Radiometer market?

What factors are driving Thermal Infrared Radiometer market growth, globally and by region?

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

How do Thermal Infrared Radiometer market opportunities vary by end market size?

How does Thermal Infrared Radiometer break out by Type, by Application?

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