

Global Thermal Infrared Radiometer Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Thermal Infrared Radiometer market size is expected to reach \$ 23.55 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

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.

This report studies the global Thermal Infrared Radiometer production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Thermal Infrared Radiometer total production and demand, 2021-2032, (Units)

Global Thermal Infrared Radiometer total production value, 2021-2032, (USD Million)

Global Thermal Infrared Radiometer production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Thermal Infrared Radiometer consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Thermal Infrared Radiometer domestic production, consumption, key domestic manufacturers and share

Global Thermal Infrared Radiometer production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Thermal Infrared Radiometer production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Thermal Infrared Radiometer production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Thermal Infrared Radiometer 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 CIMEL Electronique, Apogee Instruments, Campbell Scientific, HEITRONICS, CI Systems, EKO Instruments, Hukseflux Thermal Sensors, OTT HydroMet, Wuhan Zhongke Nenghui Technology, 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 Thermal Infrared Radiometer market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Thermal Infrared Radiometer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Thermal Infrared Radiometer Market, Segmentation by Type:

Single-channel

Multi-channel

Global Thermal Infrared Radiometer Market, Segmentation by Usage Method:

Handheld Type

Fixed Type

Global Thermal Infrared Radiometer Market, Segmentation by Operating Wavelength:

Mid-wave Thermal Infrared(3-5 μ m)

Long-wave Thermal Infrared(8-14 μ m)

Global Thermal Infrared Radiometer Market, Segmentation by Application:

Remote Sensing and Mapping

Meteorology and Environment

Agriculture and Ecology

Oceanography and Hydrology

Aerospace

Other

Companies Profiled:

CIMEL Electronique

Apogee Instruments

Campbell Scientific

HEITRONICS

CI Systems

EKO Instruments

Hukseflux Thermal Sensors

OTT HydroMet

Wuhan Zhongke Nenghui Technology

Key Questions Answered:

1. How big is the global Thermal Infrared Radiometer market?
2. What is the demand of the global Thermal Infrared Radiometer market?
3. What is the year over year growth of the global Thermal Infrared Radiometer market?
4. What is the production and production value of the global Thermal Infrared Radiometer market?
5. Who are the key producers in the global Thermal Infrared Radiometer market?
6. What are the growth factors driving the market demand?

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