

Global Thermal Infrared Radiometer Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Thermal Infrared Radiometer market size was valued at US\$ 16.21 million in 2025 and is forecast to a readjusted size of US\$ 23.55 million by 2032 with a CAGR of 5.5% during review period.

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 μ m and long-wave thermal infrared at 8~14 μ m. 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 is a detailed and comprehensive analysis for global Thermal Infrared Radiometer market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Thermal Infrared Radiometer market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Thermal Infrared Radiometer market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Thermal Infrared Radiometer market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Thermal Infrared Radiometer market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Thermal Infrared Radiometer

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Thermal Infrared Radiometer market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Thermal Infrared Radiometer market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Single-channel

Multi-channel

Market segment by Usage Method

Handheld Type

Fixed Type

Market segment by Operating Wavelength

Mid-wave Thermal Infrared(3-5 μm)

Long-wave Thermal Infrared(8-14 μm)

Market segment by Application

Remote Sensing and Mapping

Meteorology and Environment

Agriculture and Ecology

Oceanography and Hydrology

Aerospace

Other

Major players covered

CIMEL Electronique

Apogee Instruments

Campbell Scientific

HEITRONICS

CI Systems

EKO Instruments

Hukseflux Thermal Sensors

OTT HydroMet

Wuhan Zhongke Nenghui Technology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Thermal Infrared Radiometer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Thermal Infrared Radiometer, with price, sales quantity, revenue, and global market share of Thermal Infrared Radiometer from 2021 to 2026.

Chapter 3, the Thermal Infrared Radiometer competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Thermal Infrared Radiometer breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Thermal Infrared Radiometer market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Thermal Infrared Radiometer.

Chapter 14 and 15, to describe Thermal Infrared Radiometer sales channel, distributors, customers, research findings and conclusion.

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