

Global Thermopile Infrared Detector Market Growth 2025-2031

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Abstracts

The global Thermopile Infrared Detector market size is predicted to grow from US\$ 584 million in 2025 to US\$ 706 million in 2031; it is expected to grow at a CAGR of 3.2% 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.

A thermopile infrared detector is a type of thermal detector that uses the Seebeck effect to generate an electric signal proportional to the incident infrared light energy. The thermopile consists of a series of small thermocouples on a silicon chip that absorb the infrared radiation and produce a temperature difference between the hot and cold junctions. The thermopile detector can measure the temperature of an object from a distance by detecting its infrared emission, without requiring physical contact.

Thermopile detectors are widely used in applications such as gas measurement, fire detection, non-contact thermometers, and medical devices.

The industry trend of thermopile infrared detectors is expected to be positive and growing in the coming years, according to various market reports . Some of the factors that drive the demand for this product are:

The increasing adoption of thermopile detectors in medical applications, such as non-contact thermometers, ear thermometers, and skin temperature measurement devices, especially due to the COVID-19 pandemic and the need for rapid and accurate diagnosis .

The rising demand for thermopile detectors in smart home and building automation systems, such as HVAC control, fire detection, occupancy sensing, and energy efficiency management.

The growing popularity of thermopile detectors in consumer electronics and automotive sectors, such as gesture recognition, facial recognition, driver monitoring, night vision, and parking assistance.

The global market size of thermopile infrared detectors was estimated to be around \$300 million in 2020 and is projected to reach \$450 million by 2028, with a compound annual growth rate (CAGR) of 5.6%. The major regions that contribute to the market share are North America, Europe, Asia-Pacific, and Latin America. The key challenges that the industry faces are the high cost of thermopile sensors, the competition from other types of infrared detectors, and the environmental regulations on the use of certain materials.

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

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

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

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

Segmentation by Type:

Through Hole Thermopile Infrared Sensor

SMD Thermopile Infrared Sensor

Segmentation by Application:

Medical Devices

IoT Smart Home

Industrial Use

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.

Excelitas

Orisystech

Heimann

Melexis

Amphemol

TE

Semitec

Hamamatsu Photonic

Nicera

KODENSHI

Winson

Senba Sensing Technology

Sunshine Technologies

San-U

Key Questions Addressed in this Report

What is the 10-year outlook for the global Thermopile Infrared Detector market?

What factors are driving Thermopile Infrared Detector market growth, globally and by region?

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

How do Thermopile Infrared Detector market opportunities vary by end market size?

How does Thermopile Infrared Detector break out by Type, by Application?

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