

# Global Thermopile Infrared Sensor Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global Thermopile Infrared Sensor market size will reach 640.25 Million USD in 2025 and is projected to reach 1,081.02 Million USD by 2032, with a CAGR of 7.77% (2025-2032). Notably, the China Thermopile Infrared Sensor market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

A thermopile infrared sensor is a type of temperature-sensing device that utilizes the thermoelectric effect to detect infrared radiation emitted by an object. It consists of multiple thermocouples connected in series or parallel to form a thermopile. When exposed to infrared radiation, the temperature differences across the thermocouples generate a voltage, producing an electrical signal proportional to the intensity of the radiation. Thermopile infrared sensors are commonly used in non-contact temperature measurement applications, such as in infrared thermometers and thermal imaging devices. Their ability to detect and convert infrared radiation into a measurable electrical signal makes them valuable for various industrial, medical, and consumer applications where accurate and remote temperature sensing is required.

The major global manufacturers of Thermopile Infrared Sensor include Excelitas, Heimann, Sunshine Technologies, Melexis, Amphemol, TE Connectivity, Orisystech, Semitec, Hamamatsu Photonics, Nicera, KODENSHI, Winson, Senba Sensing Technology, San-U, etc. The global players competition landscape in this report is

divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Thermopile Infrared Sensor. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Thermopile Infrared Sensor market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Thermopile Infrared Sensor market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Thermopile Infrared Sensor industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Thermopile Infrared Sensor Include:

Excelitas

Heimann

Sunshine Technologies

Melexis

Amphemol

TE Connectivity

Orisystech

Semitec

Hamamatsu Photonics

Nicera

KODENSHI

Winson

Senba Sensing Technology

San-U

Thermopile Infrared Sensor Product Segment Include:

Through Hole Type

SMD Type

Thermopile Infrared Sensor Product Application Include:

Medical Devices

IoT Smart Home

Industrial Use

Consumer Electronics

Others

## **Chapter Scope**

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

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