

Global Thermopile Microbolometer Infrared Detector Competitive Landscape Professional Research Report 2025

<https://marketpublishers.com/r/TBD0312B42B3EN.html>

Date: June 2025

Pages: 165

Price: US\$ 3,500.00 (Single User License)

ID: TBD0312B42B3EN

Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Thermopile Microbolometer Infrared Detector market size will reach 3,970.28 Million USD in 2025 and is projected to reach 7,299.88 Million USD by 2032, with a CAGR of 9.09% (2025-2032). Notably, the China Thermopile Microbolometer Infrared Detector 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 microbolometer infrared detector is a sophisticated device used in thermal imaging cameras and infrared sensors for temperature measurement. It combines the principles of a thermopile and a microbolometer to detect infrared radiation emitted by objects. The thermopile aspect involves the use of multiple thermocouples connected in series or parallel to generate a voltage in response to temperature variations caused by the incident infrared radiation. The microbolometer part includes a tiny, heat-sensitive resistor that changes its electrical resistance with temperature fluctuations, providing a means to measure the thermal radiation. Together, these components enable the detection and conversion of infrared radiation into an electrical signal, allowing for the creation of thermal images and accurate temperature measurements. This technology is widely employed in applications such as night vision, industrial monitoring, and medical imaging, where non-contact temperature sensing and thermal analysis are essential.

The major global manufacturers of Thermopile Microbolometer Infrared Detector include

Excelitas Technologies, Nippon Ceramic, Hamamatsu Photonic, Murata Manufacturing, Flir Systems, Texas Instruments, Sofradir, Infra TEC GmbH, DRS, Zhejiang Dali, IRay Technology, North GuangWei, 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 Microbolometer Infrared Detector. 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 Microbolometer Infrared Detector 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 Microbolometer Infrared Detector 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 Microbolometer Infrared Detector 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 Microbolometer Infrared Detector Include:

Excelitas Technologies

Nippon Ceramic

Hamamatsu Photonic

Murata Manufacturing

Flir Systems

Texas Instruments

Sofradir

Infra TEC GmbH

DRS

Zhejiang Dali

IRay Technology

North GuangWei

Thermopile Microbolometer Infrared Detector Product Segment Include:

Microbolometer IR Detector

Thermopile IR Detector

Pyroelectric IR Detector

Thermopile Microbolometer Infrared Detector Product Application Include:

Military and Defense

Automotive

Smart Home

Medicine

Others

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