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Global Thermopile Infrared Gas Detectors Market Growth 2026-2032

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Abstracts

The global Thermopile Infrared Gas Detectors market size is predicted to grow from US$ 794 million in 2025 to US$ 1318 million in 2032; it is expected to grow at a CAGR of 7.7% from 2026 to 2032.

The working principle of the thermopile infrared gas detector is based on the thermoelectric effect. When infrared radiation hits the thermopile sensing element, the sensing element absorbs energy and generates a temperature difference, which in turn generates a thermoelectric potential. This thermoelectric potential is proportional to the intensity of the infrared radiation, so the intensity of the infrared radiation can be inferred by measuring the thermoelectric potential, thereby detecting the presence or concentration of gas.

United States market for Thermopile Infrared Gas Detectors is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Thermopile Infrared Gas Detectors is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Thermopile Infrared Gas Detectors is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Thermopile Infrared Gas Detectors players cover Excelitas, Heimann, Sunshine Technologies, Melexis, Amphemol, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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LP Information, Inc. (LPI) ' newest research report, the ?Thermopile Infrared Gas Detectors Industry Forecast? looks at past sales and reviews total world Thermopile Infrared Gas Detectors sales in 2025, providing a comprehensive analysis by region and market sector of projected Thermopile Infrared Gas Detectors sales for 2026 through 2032. With Thermopile Infrared Gas Detectors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Thermopile Infrared Gas Detectors industry.

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

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

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

Segmentation by Type:

Thin Film Type

Silicon Type

Segmentation by Application:

Home Appliances

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- Security
- Medical
- Consumer Electronics
- Industrial
- Others

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia
- Europe

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- 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
- Heimann
- Sunshine Technologies
- Melexis
- Amphemol
- TE Connectivity

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Orisystech

Semitec

Hamamatsu Photonics

Nicera

KODENSHI

Winson

Suzhou Sinan Sensing

Senba Sensing Technology

Oriental System Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Thermopile Infrared Gas Detectors market?
What factors are driving Thermopile Infrared Gas Detectors market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do Thermopile Infrared Gas Detectors market opportunities vary by end market size?
How does Thermopile Infrared Gas Detectors break out by Type, by Application?

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