



Thermopile Infrared Sensor Industry Research Report 2026

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Machinery & Equipment	2025-12-29	124	PDF

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Description

Thermopiles are designed to measure temperature from a distance by detecting an object's infrared (IR) energy. The higher the temperature, the more IR energy is emitted. The thermopile sensing element, composed of small thermocouples on a silicon chip, absorb the energy and produce an output signal. A reference sensor is designed into the package as a reference for compensation. Thermopile infrared (IR) non-contact temperature measurement sensors are available with various lens, and filters allowing use in multiple applications, from industrial pyrometers, to climate controls and medical devices.

Thermopile infrared sensors can measure temperature from a distance by detecting the infrared (IR) energy of an object. The higher the temperature, the more infrared energy is produced. Thermopile sensing elements consist of small thermocouples on a silicon chip that absorb energy and produce an output signal. The reference sensor is used as the compensation reference in the package. Thermopile infrared (IR) contactless temperature measurement sensors feature a variety of lenses and filters for use in a variety of applications, from pyrometers to climate control and medical devices.

Global Thermopile Infrared Sensor key players include Excelitas, Heimann, Sunshine Technologies Corporation, Melexis, etc. Global top five manufacturers hold a Sales Market Share over 40%. China accounts for the most Production Market Share, which have a share over 30%, followed by Europe. In terms of product, Through-hole Thermopile Infrared Sensor is the largest segment, with a Production Market Share over 70%. And in terms of application, the largest application is Medical Equipment, followed by Smart Home.

Report Scope

This report quantifies the global Thermopile Infrared Sensor market in revenue (US\$ million) and, where applicable, sales volume (K Units), using 2025 as the base year and providing annual historical and forecast data for 2021–2032.

It standardizes definitions of types and applications, harmonizes vendor attribution, and presents comparable time series by company, type, application, and region/country, including indicative price bands (US\$/K Units) and concentration ratios (CR5/CR10).

The outputs are intended to support strategy development, budgeting, and performance benchmarking for manufacturers, new entrants, channel partners, and investors; the report also reviews technology shifts and notable product introductions relevant to Thermopile Infrared Sensor.

Key Companies & Market Share Insights

This section profiles leading manufacturers, combining 2021–2025 results with a 2026–2032 outlook. It reports revenue, market share, price bands, product and application mix, regional and channel mix, and key developments (M&A, capacity additions, certifications). It also provides global revenue, average price, and—

where applicable—sales volume by manufacturer, and calculates CR5/CR10 and rank changes to support comparative benchmarking.

Thermopile Infrared Sensor Market by Company

- Excelitas
- Heimann
- Sunshine Technologies Corporation
- Melexis
- amphenol
- TE Connectivity
- Oriental System Technology Inc.
- Semitec
- Hamamatsu Photonics
- Nicera
- KODENSHI
- WISEN
- SENBA
- XIAMEN SAN-U Optoelectronic Interconnected Technique CO.,LTD

Thermopile Infrared Sensor Segment by Type

- Through-hole Thermopile Infrared Sensor
- SMD Thermopile Infrared Sensor

Thermopile Infrared Sensor Segment by Application

- Medical Equipment
- Smart Home
- Industrial Control
- Consumer Electronics
- Other

Thermopile Infrared Sensor Segment by Region

- North America
 - United States
 - Canada
 - Mexico
- Europe
 - Germany
 - France
 - U.K.
 - Italy
 - Russia
 - Spain
 - Netherlands
 - Switzerland
 - Sweden
 - Poland
- Asia-Pacific
 - China
 - Japan
 - South Korea
 - India

Australia
Taiwan
Southeast Asia
South America
Brazil
Argentina
Chile
Middle East & Africa
Egypt
South Africa
Israel
Türkiye
GCC Countries

Key Drivers & Barriers

High-impact rendering factors and drivers have been studied in this report to aid the readers to understand the general development. Moreover, the report includes restraints and challenges that may act as stumbling blocks on the way of the players. This will assist the users to be attentive and make informed decisions related to business. Specialists have also laid their focus on the upcoming business prospects.

Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Thermopile Infrared Sensor market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.
2. This report will help stakeholders to understand the global industry status and trends of Thermopile Infrared Sensor and provides them with information on key market drivers, restraints, challenges, and opportunities.
3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.
4. This report stays updated with novel technology integration, features, and the latest developments in the market
5. This report helps stakeholders to gain insights into which regions to target globally
6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Thermopile Infrared Sensor.
7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

Chapter Outline

Chapter 1:

Research objectives, research methods, data sources, data cross-validation;

Chapter 2:

Introduces the report scope of the report, executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the market and its likely evolution in the short to mid-term, and long term.

Chapter 3:

Detailed analysis of Thermopile Infrared Sensor manufacturers competitive landscape, price, production and value market share, latest development plan, merger, and acquisition information, etc.

Chapter 4:

Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product production/output, value, price, gross margin, product introduction, recent development, etc.

Chapter 5:

Production/output, value of Thermopile Infrared Sensor by region/country. It provides a quantitative analysis of the market size and development potential of each region in the next six years.

Chapter 6:

Consumption of Thermopile Infrared Sensor in regional level and country level. It provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and production of each country in the world.

Chapter 7:

Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 8:

Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 9:

Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10:

Introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 11:

The main points and conclusions of the report.

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