

Global Through-Hole Thermopile Infrared Sensor Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Through-Hole Thermopile Infrared Sensor market size was valued at US\$ 394 million in 2024 and is forecast to a readjusted size of USD 485 million by 2031 with a CAGR of 3.0% during review period.

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.

A through-hole thermopile infrared sensor is a sensor used to detect infrared radiation. It is based on the principle of pyroelectric effect, which can convert infrared radiation into electrical signal, which is used to measure and detect the thermal radiation of objects. When an object's temperature differs from the temperature of its surroundings, it emits infrared radiation. The sensor contains a thermopile, which consists of multiple thermocouple electrodes. Each thermocouple electrode is composed of two metal wires of different materials. When the thermopile receives infrared radiation, a temperature difference is generated between each thermocouple electrode, thereby generating a weak voltage. Convert a weak voltage signal into a measurable electrical signal through a circuit

This report is a detailed and comprehensive analysis for global Through-Hole Thermopile Infrared Sensor market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Through-Hole Thermopile Infrared Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Through-Hole Thermopile Infrared Sensor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Through-Hole Thermopile Infrared Sensor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Through-Hole Thermopile Infrared Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Through-Hole Thermopile Infrared Sensor
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Through-Hole Thermopile Infrared Sensor market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Excelitas, Heimann, Sunshine Technologies, Melexis, Amphenol, TE Connectivity, Orisystech, Semitec, Hamamatsu Photonics, Nicera, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Through-Hole Thermopile Infrared Sensor market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

TO-5 Package

TO-18 Package

TO-39 Package

TO-46 Package

Market segment by Application

Medical Devices

IoT Smart Home

Industrial Use

Consumer Electronics

Others

Major players covered

Excelitas

Heimann

Sunshine Technologies

Melexis

Amphenol

TE Connectivity

Orisystech

Semitec

Hamamatsu Photonics

Nicera

KODENSHI

Winson

Senba Sensing Technology

San-U

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Through-Hole Thermopile Infrared Sensor product scope, market

Global Through-Hole Thermopile Infrared Sensor Market 2025 by Manufacturers, Regions, Type and Application, Fo...

overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Through-Hole Thermopile Infrared Sensor, with price, sales quantity, revenue, and global market share of Through-Hole Thermopile Infrared Sensor from 2020 to 2025.

Chapter 3, the Through-Hole Thermopile Infrared Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Through-Hole Thermopile Infrared Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Through-Hole Thermopile Infrared Sensor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Through-Hole Thermopile Infrared Sensor.

Chapter 14 and 15, to describe Through-Hole Thermopile Infrared Sensor sales channel, distributors, customers, research findings and conclusion.

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