

Global Pyroelectric Infrared Flame Sensor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Pyroelectric Infrared Flame Sensor market size was valued at US\$ 163 million in 2025 and is forecast to a readjusted size of US\$ 251 million by 2032 with a CAGR of 6.1% during review period.

In 2025, global Pyroelectric Infrared Flame Sensor production reached approximately 3,000 K units, with an average global market price of around 52.8 USD/unit.

Pyroelectric Infrared Flame Sensor is a flame detection device that utilizes the pyroelectric effect of piezoelectric materials to respond to specific infrared radiation bands emitted by combustion flames, converts transient infrared thermal energy into measurable electrical signals, identifies flame characteristics through signal processing, and triggers alarm or control actions, featuring rapid response, high sensitivity and anti-interference capabilities for open flame monitoring.

Demand for Pyroelectric Infrared Flame Sensor is driven by stringent industrial fire safety regulations, expansion of petrochemical, energy and manufacturing critical facilities, and rising requirements for early fire warning in commercial and civil buildings, with growing preference for high anti-interference, fast response and multi-band detection products; business opportunities lie in the miniaturization and low-power optimization of sensing elements, integration with intelligent fire alarm systems, mass production for industrial safety upgrades and civil fire protection markets, and customized products for harsh working environments, while the development of smart fire protection and IoT fire monitoring systems creates incremental market space for high-performance pyroelectric infrared flame sensors.

This report is a detailed and comprehensive analysis for global Pyroelectric Infrared Flame Sensor market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Sensing Element Material 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 Pyroelectric Infrared Flame Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Pyroelectric Infrared Flame Sensor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Pyroelectric Infrared Flame Sensor market size and forecasts, by Sensing Element Material and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Pyroelectric Infrared Flame Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

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 Pyroelectric Infrared Flame Sensor

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Pyroelectric Infrared Flame 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 InfraTec, Kemet (Yageo), Laser Components, HJP Technology, Broadcom, Winsen Electronics, Met-sensor, ICC, Micro-Hybrid, SaiyaSensor, etc.

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

Market Segmentation

Pyroelectric Infrared Flame Sensor market is split by Sensing Element Material and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Sensing Element Material, 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 Sensing Element Material

- Single Crystal Pyroelectric Materials

- Ceramic Pyroelectric Materials

- Polymer Pyroelectric Materials

Market segment by Detection Infrared Band

- Broadband Infrared Detection Sensors

- Narrowband Infrared Detection Sensors

- Dual-Band Infrared Detection Sensors

Market segment by Output Signal Type

- Analog Signal Output Sensors

- Digital Signal Output Sensors

- Switch Signal Output Sensors

Market segment by Application

Petrochemical Facility Monitoring

Industrial Production Fire Detection

Power Equipment Safety Monitoring

Others

Major players covered

InfraTec

Kemet (Yageo)

Laser Components

HJP Technology

Broadcom

Winsen Electronics

Met-sensor

ICC

Micro-Hybrid

SaiyaSensor

Senba Sensing Technology

Anysafe

Vertex

Sensortiot

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 Pyroelectric Infrared Flame Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Pyroelectric Infrared Flame Sensor, with price, sales quantity, revenue, and global market share of Pyroelectric Infrared Flame Sensor from 2021 to 2026.

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

Chapter 4, the Pyroelectric Infrared Flame Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Sensing Element Material and by Application, with sales market share and growth rate by Sensing Element Material, by Application, from 2021 to 2032.

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 2021 to 2026. and Pyroelectric Infrared Flame Sensor market forecast, by regions, by Sensing Element Material, and by Application, with sales and revenue, from 2027 to 2032.

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 Pyroelectric Infrared Flame Sensor.

Chapter 14 and 15, to describe Pyroelectric Infrared Flame Sensor sales channel, distributors, customers, research findings and conclusion.

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