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Global Pyroelectric Infrared Gas Detectors Market Growth 2026-2032

https://marketpublishers.com/r/GAF4E3FBD5BFEN.html
Date: January 2026
Pages: 115
Price: US$ 3,660.00 (Single User License)
ID: GAF4E3FBD5BFEN

Abstracts

The global Pyroelectric Infrared Gas Detectors market size is predicted to grow from US$ 901 million in 2025 to US$ 1520 million in 2032; it is expected to grow at a CAGR of 7.9% from 2026 to 2032.

Pyroelectric infrared gas detectors operate on the principle of the pyroelectric effect. The detector contains a piece of ferroelectric crystal material with electrodes on either side, essentially a capacitor. When incident infrared radiation (such as infrared light emitted by gas molecules after absorbing energy) is absorbed by one of the detector's electrodes (usually a black coating or processed absorbent metal surface), it causes the crystal to heat up. This heating generates a pyroelectric voltage, which can be detected electronically, or as a current, when the voltage is held constant. Due to the pyroelectric effect, the detector does not respond directly to the radiation, but only to the heat generated.

United States market for Pyroelectric 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 Pyroelectric 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 Pyroelectric 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 Pyroelectric Infrared Gas Detectors players cover InfraTec, Senba Sensing Technology, Saiya Sensor, Weisheng Technology, Shanxi Tengxing Sensor

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Technology, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the ?Pyroelectric Infrared Gas Detectors Industry Forecast? looks at past sales and reviews total world Pyroelectric Infrared Gas Detectors sales in 2025, providing a comprehensive analysis by region and market sector of projected Pyroelectric Infrared Gas Detectors sales for 2026 through 2032. With Pyroelectric 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 Pyroelectric Infrared Gas Detectors industry.

This Insight Report provides a comprehensive analysis of the global Pyroelectric 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 Pyroelectric 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 Pyroelectric Infrared Gas Detectors market.

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

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

Segmentation by Type:

Single Channel

Multi-Channel

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Segmentation by Application:

- Security
- Home Appliances
- Consumer Electronics
- Industry
- Others

This report also splits the market by region:

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

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- Europe
  - 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.

- InfraTec
- Senba Sensing Technology
- Saiya Sensor
- Weisheng Technology
- Shanxi Tengxing Sensor Technology

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Shanghai Sunshine Technologies

Excelitas Technologies

Murata

Panasonic

Zilog

HeimannSensors

KEMET

Key Questions Addressed in this Report

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

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