

Global Analog Pyroelectric Infrared 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 Analog Pyroelectric Infrared Sensor market size was valued at US\$ 73.84 million in 2025 and is forecast to a readjusted size of US\$ 81.85 million by 2032 with a CAGR of 1.0% during review period.

In 2025, global sales of simulated pyroelectric infrared sensors were approximately 276 million units, with an average unit price of approximately US\$0.26. The industry's gross profit margin was approximately 30-40%. Analog pyroelectric infrared sensors are infrared detection devices that generate charge signals in response to temperature changes using pyroelectric crystals (such as lithium tantalate and lead zirconium titanate). Their output is a continuous analog voltage signal, characterized by fast response, low power consumption, and high sensitivity. They are commonly used in applications such as human infrared (PIR) sensors, security monitoring, smart lighting, appliance control, and environmental monitoring. Compared to digital pyroelectric sensors, analog devices offer advantages in cost and circuit design flexibility, but they rely more heavily on back-end signal amplification and processing circuitry. The market is benefiting from the continued expansion of smart homes, security systems, and IoT devices, with particularly strong demand in consumer electronics and basic security products. The upstream mainly involves the supply of pyroelectric crystal materials, infrared filters, packaging substrates, etc., midstream companies are responsible for detector design, manufacturing and packaging, and the downstream is widely used in infrared alarms, smart lighting control, security cameras and various terminal sensing modules.

Market drivers mainly include the following:

Upgrading demands for security and intelligent systems: Accelerated global urbanization and increased security needs are driving the widespread application of infrared sensors in intrusion alarms, access control systems, and surveillance cameras. For example, the EU standard EN 50131 requires security systems to have high reliability and anti-interference capabilities, leading to a surge in demand for dual-channel sensors; China's 'Safe City' construction is driving the deployment of over ten million sensors annually, with analog sensors dominating the low-to-mid-range market due to their cost advantage.

Energy efficiency policies and green building promotion: The EU's Energy Efficiency Directive for Buildings (EPBD) and the US Title 24 regulation mandate the use of smart lighting and HVAC energy-saving systems in public buildings, directly driving demand for low-power sensors. Analog sensors, which do not require complex digital circuits, have a penetration rate exceeding 70% in smart lighting control and automatic air conditioning adjustment scenarios, becoming a standard feature in energy-efficient buildings.

IoT and consumer electronics expansion: The demand for low-power human body sensing from smart speakers, wearable devices, and surveillance cameras has exploded. Analog sensors, with their low-power packaging (such as SMD surface mount technology) and fast response characteristics, have become core components of IoT terminal devices. For example, Xiaomi's smart door locks integrate analog sensors to achieve 'lights turn on when someone enters, lights turn off when someone leaves,' with annual shipments exceeding one million units, driving the continued expansion of the sensor market.

This report is a detailed and comprehensive analysis for global Analog Pyroelectric 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 Analog Pyroelectric Infrared Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit),

2021-2032

Global Analog Pyroelectric Infrared 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 Analog Pyroelectric 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), 2021-2032

Global Analog Pyroelectric Infrared 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 Analog Pyroelectric Infrared 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 Analog Pyroelectric 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 Broadcom, Excelitas, InfraTec, KEMET, Gentec-EO, Precision Micro-Optics, Murata, Nippon Ceramic Co., Ltd., Heimann Sensor, Laser Components, etc.

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

Market Segmentation

Analog Pyroelectric Infrared Sensor market is split by Type and by Application. For the period 2021-2032, 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

Single Channel

Dual Channel

Quad Channel

Market segment by Material

Traditional Ceramic Type

New Crystal Type

Market segment by Function Category

Basic Detection Type

Intelligent Management Type

Market segment by Application

Lighting Products

Security Products

Smart Home

Consumer Electronics

Others

Major players covered

Broadcom

Excelitas

InfraTec

KEMET

Gentec-EO

Precision Micro-Optics

Murata

Nippon Ceramic Co., Ltd.

Heimann Sensor

Laser Components

DIAS Infrared

GEWEE

Micro-Hybrid Electronic

Hanwei Electronics Group

Senba Sensing Technology

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 Analog Pyroelectric Infrared Sensor product scope, market

Global Analog Pyroelectric Infrared Sensor Market 2026 by Manufacturers, Regions, Type and Application, Foreca...

overview, market estimation caveats and base year.

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

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

Chapter 4, the Analog Pyroelectric Infrared 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 Type and by Application, with sales market share and growth rate by Type, 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 Analog Pyroelectric Infrared Sensor market forecast, by regions, by Type, 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 Analog Pyroelectric Infrared Sensor.

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

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