

# Global Multi-channel Pyroelectric Infrared Detectors 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 Multi-channel Pyroelectric Infrared Detectors market size was valued at US\$ 97 million in 2025 and is forecast to a readjusted size of US\$ 141 million by 2032 with a CAGR of 5.8% during review period.

In 2025, the global production of multi-channel pyroelectric infrared detectors reached 230 million units, with a unit price of approximately US\$0.41 per unit. The industry's gross profit margin was approximately 40-50%.

Multi-channel pyroelectric infrared detectors utilize the pyroelectric effect, employing multiple independent detection units to simultaneously receive infrared radiation from different directions or regions, enabling simultaneous monitoring of multiple targets or analysis of spatial temperature field distribution. Their core component is a pyroelectric crystal (such as lithium tantalate), which focuses the infrared signal through a Fresnel lens, combined with multi-channel signal processing circuitry to achieve multi-channel data output. The upstream sector encompasses the supply of core components such as pyroelectric crystal materials, MEMS sensor chips, and optical lenses; the midstream sector involves detector packaging and multi-channel signal processing circuit integration; and the downstream sector is applied in security monitoring, smart homes, industrial temperature measurement, medical monitoring, and automotive electronics.

The main market drivers include:

Technological iteration driving deeper applications

The application of new pyroelectric materials (such as nanostructured lithium tantalate) significantly improves sensor sensitivity and response speed, while miniaturization (such as 3mm<sup>2</sup> MEMS packaging) reduces power consumption and expands into emerging scenarios such as wearable devices. Optimized manufacturing processes (such as surface mount packaging) further reduce costs, driving large-scale deployment.

#### Continued release of demand across multiple sectors

The security sector is upgrading towards intelligence, with multi-channel detectors enabling perimeter protection and intrusion trajectory tracking; the smart home market is booming, combining with automatic lighting and air conditioning control to form energy-saving solutions; the healthcare sector is expanding into non-contact respiratory monitoring and fall warning functions; and the automotive electronics sector is applying these technologies to autonomous driving pedestrian recognition and occupant safety detection.

#### Dual benefits of policy and cost

Global energy conservation and emission reduction regulations mandate the use of intelligent lighting systems in public buildings, directly driving demand for detectors; upgraded security standards (such as mandatory installation of automatic alarm systems in banks) expand the security market. Supply chain integration (from materials to device assembly) and large-scale production reduce unit costs, enabling the widespread adoption of price-sensitive applications (such as automatic lighting in public restrooms).

This report is a detailed and comprehensive analysis for global Multi-channel Pyroelectric Infrared Detectors 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 Multi-channel Pyroelectric Infrared Detectors market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices

(US\$/Unit), 2021-2032

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

Global Multi-channel Pyroelectric Infrared Detectors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Multi-channel Pyroelectric Infrared Detectors market shares of main players, shipments in revenue (\$ Million), sales quantity (Million 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 Multi-channel Pyroelectric Infrared Detectors
- 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 Multi-channel Pyroelectric Infrared Detectors 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 Technologies, Nippon Ceramic Co., Ltd., Senba Sensing Technology, Murata, Panasonic, InfraTec, KEMET Electronics (YAGEO Group), Heimann Sensors, Hanwei Electronics Group, MEMSFrontier Electronics, etc.

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

### **Market Segmentation**

Multi-channel Pyroelectric Infrared Detectors 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

Traditional Sensor

Smart Sensor

## Market segment by Product Form

Dual-channel

Quad-channel

## Market segment by Technology

Non-cooled

Cooled

## Market segment by Application

Lighting Products

Security Product

Smart Home

Consumer Electronics

Others

## Major players covered

Excelitas Technologies

Nippon Ceramic Co., Ltd.

Senba Sensing Technology

Murata

Panasonic

InfraTec

KEMET Electronics (YAGEO Group)

Heimann Sensors

Hanwei Electronics Group

MEMSFrontier Electronics

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 Multi-channel Pyroelectric Infrared Detectors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Multi-channel Pyroelectric Infrared Detectors, with price, sales quantity, revenue, and global market share of Multi-channel

Pyroelectric Infrared Detectors from 2021 to 2026.

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

Chapter 4, the Multi-channel Pyroelectric Infrared Detectors 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 Multi-channel Pyroelectric Infrared Detectors 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 Multi-channel Pyroelectric Infrared Detectors.

Chapter 14 and 15, to describe Multi-channel Pyroelectric Infrared Detectors sales channel, distributors, customers, research findings and conclusion.

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