

# Global Pyroelectric Infrared Sensor Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Pyroelectric Infrared Sensor market size is expected to reach \$ 504 million by 2032, rising at a market growth of 7.3% CAGR during the forecast period (2026-2032).

The pyroelectric infrared sensor detects the target through the temperature difference between the target and the background. Its working principle is to use the pyroelectric effect, that is, to set electrodes on the upper and lower surfaces of a crystal such as barium titanate, and cover the upper surface with a black film. If there is intermittent infrared irradiation, the surface temperature rises  $\Delta T$ , and the atomic arrangement inside the crystal will change, causing spontaneous polarization charge, and generating a voltage  $\Delta U$  between the upper and lower electrodes. Commonly used materials for pyroelectric infrared photosensitive elements include ceramic oxides and piezoelectric crystals, such as barium titanate, lithium tantalate, triglycine sulfate and lead titanate.

The driving factors of the pyroelectric infrared sensor market mainly include:

1. Technological progress and innovation

Breakthroughs in materials science

The application of new pyroelectric materials: lithium tantalate (LiTaO<sub>3</sub>), triglycine sulfate (TGS) and other materials has improved the sensitivity and response speed of sensors. For example, nanostructured materials increase the sensitivity by 20%-30%, and the pyroelectric performance of thin films prepared by the sol-gel method is improved by 15%.

R&D of high-temperature and lead-free materials: Develop high-temperature

pyroelectric materials and lead-free materials for high-temperature environments (such as industrial monitoring) and environmental protection needs to expand application scenarios.

#### Manufacturing process optimization

Patent for mounted sensors: For example, the mounted design of Senba Sensor reduces processing costs by simplifying the packaging process and promotes large-scale production.

Integration and miniaturization: Micro-nano processing technology realizes sensor arrays (such as 16?16 pixels) to improve resolution and functional integration.

#### Intelligent upgrade

Signal processing technology: The built-in microprocessor implements algorithms such as Fourier transform and wavelet transform to improve anti-interference ability and stability.

Adaptive function: Automatically adjust parameters through learning mode, such as adjusting lighting brightness according to ambient light.

#### 2. Expansion of application fields

##### Deepening of traditional fields

Security monitoring: As the core of passive infrared detector (PIR Detector), it is widely used in intrusion detection in homes, warehouses, banks and other places.

Smart home: Combined with automatic lighting and air conditioning control, it realizes the energy-saving solution of 'lights on when people enter and lights off when people leave', reducing energy consumption by 30%-50%.

##### Penetration of emerging fields

##### Healthcare:

Non-contact respiratory monitoring (based on changes in chest thermal radiation).

Fall warning for the elderly (through mobile pattern recognition).

Demand for infrared body temperature detectors in epidemic prevention and control has surged.

Industrial automation:

Monitoring the temperature and movement status of the production line to optimize production efficiency.

Detection of people entering dangerous areas by mistake.

Automotive electronics:

Pedestrian recognition and obstacle detection in autonomous driving.

Occupant detection in the car (to avoid false triggering of airbags).

Internet of Things and emerging technologies

Internet of Things devices: As core components of gesture control and presence perception, they are used in smart wearables and smart homes.

Virtual reality (VR): interactive experience through thermal radiation analysis.

Wildlife protection: monitoring animal activity trajectories and body temperature changes.

### III. Policies and market demand

Policy support

Energy conservation and emission reduction regulations: The EU Energy Efficiency Directive requires public buildings to adopt intelligent lighting systems, which promotes the demand for PIR sensors.

Safety standards: Countries have increased their requirements for safety in public places, such as the mandatory installation of automatic alarm systems in banks and shopping malls.

## Consumption upgrade

Popularization of smart homes: The global smart home market size exceeds US\$100 billion, and PIR sensors benefit as key components.

Consumer electronics upgrade: The demand for infrared sensing functions (such as gesture control and health monitoring) in smartphones and wearable devices has increased.

## IV. Cost reduction and scale

### Cost optimization

Materials and processes: Thin film technology and surface mount design reduce production costs, making PIR sensors more competitive in price.

Industry chain integration: The complete production process from material preparation to device assembly (such as the Huazhong University of Science and Technology project) promotes scale.

### Market penetration rate increases

Price-sensitive applications: such as automatic lighting in public toilets and underground garages, cost reduction promotes large-scale deployment.

Emerging market expansion: Infrastructure construction in Southeast Asia, Africa and other regions drives security and lighting demand.

The market growth of pyroelectric infrared sensors is driven by technological progress (materials, processes, intelligence), application expansion (security, medical, automotive), policy support (energy saving, safety) and cost reduction. In the future, with the penetration of emerging fields such as the Internet of Things and autonomous driving, as well as the research and development of high-temperature/lead-free materials, the market potential will continue to be released.

This report studies the global Pyroelectric Infrared Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for

Pyroelectric Infrared Sensor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Pyroelectric Infrared Sensor that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Pyroelectric Infrared Sensor total production and demand, 2021-2032, (Units)

Global Pyroelectric Infrared Sensor total production value, 2021-2032, (USD Million)

Global Pyroelectric Infrared Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Pyroelectric Infrared Sensor consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Pyroelectric Infrared Sensor domestic production, consumption, key domestic manufacturers and share

Global Pyroelectric Infrared Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Pyroelectric Infrared Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Pyroelectric Infrared Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Pyroelectric Infrared Sensor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Excelitas Technologies, SENBA Sensing Technology Co., Ltd, Nippon Ceramic Co., Ltd., InfraTec, Murata, Panasonic, Fuji Ceramics Corporation, Zilog, HeimannSensors, Winson, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Pyroelectric Infrared Sensor market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (USD/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by

year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

#### Global Pyroelectric Infrared Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Pyroelectric Infrared Sensor Market, Segmentation by Type:

Traditional Sensor

Smart Sensor

#### Global Pyroelectric Infrared Sensor Market, Segmentation by Application:

Lighting Products

Security Product

Smart Home

Consumer Electronics

Others

Companies Profiled:

Excelitas Technologies

SENBA Sensing Technology Co., Ltd

Nippon Ceramic Co., Ltd.

InfraTec

Murata

Panasonic

Fuji Ceramics Corporation

Zilog

HeimannSensors

Winson

KEMET Electronics

MEMSFrontier Electronics

**Key Questions Answered:**

1. How big is the global Pyroelectric Infrared Sensor market?
2. What is the demand of the global Pyroelectric Infrared Sensor market?
3. What is the year over year growth of the global Pyroelectric Infrared Sensor market?
4. What is the production and production value of the global Pyroelectric Infrared Sensor market?
5. Who are the key producers in the global Pyroelectric Infrared Sensor market?
6. What are the growth factors driving the market demand?

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