

Global Pyroelectric Infrared Sensor Market Growth 2026-2032

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Abstracts

The global Pyroelectric Infrared Sensor market size is predicted to grow from US\$ 200 million in 2025 to US\$ 302 million in 2032; it is expected to grow at a CAGR of 6.1% from 2026 to 2032.

In 2025, global sales of pyroelectric infrared sensors reached 576 million units, with an average price of approximately US\$0.35 per unit. The industry's gross profit margin was approximately 32-40%.

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 ΔT , and the atomic arrangement inside the crystal will change, causing spontaneous polarization charge, and generating a voltage ΔU 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 upstream of the pyroelectric infrared sensor industry chain includes raw materials such as lead zirconate titanate ceramics and lithium tantalate, as well as components such as infrared filters and signal processing circuits; the midstream involves sensor manufacturing; and the downstream is widely used in security monitoring, smart homes, autonomous driving, and medical diagnostics.

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

Technological progress and innovation

Breakthroughs in materials science

The application of new pyroelectric materials: lithium tantalate (LiTaO₃), 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.

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.

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.

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.

LP Information, Inc. (LPI) ' newest research report, the "Pyroelectric Infrared Sensor Industry Forecast" looks at past sales and reviews total world Pyroelectric Infrared Sensor sales in 2025, providing a comprehensive analysis by region and market sector of projected Pyroelectric Infrared Sensor sales for 2026 through 2032. With Pyroelectric Infrared Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Pyroelectric Infrared Sensor industry.

This Insight Report provides a comprehensive analysis of the global Pyroelectric Infrared Sensor 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 Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Pyroelectric Infrared Sensor market.

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

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

Segmentation by Type:

Traditional Sensor

Smart Sensor

Segmentation by Product Forms:

Basic Functional Type

High-End Functional Type

Segmentation by Technology:

Analog Type

Digital Type

Segmentation by Application:

Lighting Products

Security Product

Smart Home

Consumer Electronics

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

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.

Excelitas Technologies

Nippon Ceramic Co., Ltd.

Senba Sensing Technology

Murata

Panasonic

InfraTec

KEMET Electronics (YAGEO Group)

Heimann Sensors

Hanwei Electronics Group

MEMSFrontier Electronics

Key Questions Addressed in this Report

What is the 10-year outlook for the global Pyroelectric Infrared Sensor market?

What factors are driving Pyroelectric Infrared Sensor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Pyroelectric Infrared Sensor market opportunities vary by end market size?

How does Pyroelectric Infrared Sensor break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Pyroelectric Infrared Sensor Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Pyroelectric Infrared Sensor by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Pyroelectric Infrared Sensor by Country/Region, 2021, 2025 & 2032
- 2.2 Pyroelectric Infrared Sensor Segment by Type
 - 2.2.1 Traditional Sensor
 - 2.2.2 Smart Sensor
 - 2.2.3 Pyroelectric Infrared Sensor Sales by Type
 - 2.2.3.1 Global Pyroelectric Infrared Sensor Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Pyroelectric Infrared Sensor Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Pyroelectric Infrared Sensor Sale Price by Type (2021-2026)
- 2.3 Pyroelectric Infrared Sensor Segment by Product Forms
 - 2.3.1 Basic Functional Type
 - 2.3.2 High-End Functional Type
 - 2.3.3 Pyroelectric Infrared Sensor Sales by Product Forms
 - 2.3.3.1 Global Pyroelectric Infrared Sensor Sales Market Share by Product Forms (2021-2026)
 - 2.3.3.2 Global Pyroelectric Infrared Sensor Revenue and Market Share by Product Forms (2021-2026)
 - 2.3.3.3 Global Pyroelectric Infrared Sensor Sale Price by Product Forms (2021-2026)
- 2.4 Pyroelectric Infrared Sensor Segment by Technology

2.4.1 Analog Type

2.4.2 Digital Type

2.4.3 Pyroelectric Infrared Sensor Sales by Technology

2.4.3.1 Global Pyroelectric Infrared Sensor Sales Market Share by Technology
(2021-2026)

2.4.3.2 Global Pyroelectric Infrared Sensor Revenue and Market Share by
Technology (2021-2026)

2.4.3.3 Global Pyroelectric Infrared Sensor Sale Price by Technology (2021-2026)

2.5 Pyroelectric Infrared Sensor Segment by Application

2.5.1 Lighting Products

2.5.2 Security Product

2.5.3 Smart Home

2.5.4 Consumer Electronics

2.5.5 Others

2.5.6 Pyroelectric Infrared Sensor Sales by Application

2.5.6.1 Global Pyroelectric Infrared Sensor Sale Market Share by Application
(2021-2026)

2.5.6.2 Global Pyroelectric Infrared Sensor Revenue and Market Share by
Application (2021-2026)

2.5.6.3 Global Pyroelectric Infrared Sensor Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Pyroelectric Infrared Sensor Breakdown Data by Company

3.1.1 Global Pyroelectric Infrared Sensor Annual Sales by Company (2021-2026)

3.1.2 Global Pyroelectric Infrared Sensor Sales Market Share by Company
(2021-2026)

3.2 Global Pyroelectric Infrared Sensor Annual Revenue by Company (2021-2026)

3.2.1 Global Pyroelectric Infrared Sensor Revenue by Company (2021-2026)

3.2.2 Global Pyroelectric Infrared Sensor Revenue Market Share by Company
(2021-2026)

3.3 Global Pyroelectric Infrared Sensor Sale Price by Company

3.4 Key Manufacturers Pyroelectric Infrared Sensor Producing Area Distribution, Sales
Area, Product Type

3.4.1 Key Manufacturers Pyroelectric Infrared Sensor Product Location Distribution

3.4.2 Players Pyroelectric Infrared Sensor Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR PYROELECTRIC INFRARED SENSOR BY GEOGRAPHIC REGION

4.1 World Historic Pyroelectric Infrared Sensor Market Size by Geographic Region (2021-2026)

4.1.1 Global Pyroelectric Infrared Sensor Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Pyroelectric Infrared Sensor Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Pyroelectric Infrared Sensor Market Size by Country/Region (2021-2026)

4.2.1 Global Pyroelectric Infrared Sensor Annual Sales by Country/Region (2021-2026)

4.2.2 Global Pyroelectric Infrared Sensor Annual Revenue by Country/Region (2021-2026)

4.3 Americas Pyroelectric Infrared Sensor Sales Growth

4.4 APAC Pyroelectric Infrared Sensor Sales Growth

4.5 Europe Pyroelectric Infrared Sensor Sales Growth

4.6 Middle East & Africa Pyroelectric Infrared Sensor Sales Growth

5 AMERICAS

5.1 Americas Pyroelectric Infrared Sensor Sales by Country

5.1.1 Americas Pyroelectric Infrared Sensor Sales by Country (2021-2026)

5.1.2 Americas Pyroelectric Infrared Sensor Revenue by Country (2021-2026)

5.2 Americas Pyroelectric Infrared Sensor Sales by Type (2021-2026)

5.3 Americas Pyroelectric Infrared Sensor Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Pyroelectric Infrared Sensor Sales by Region

6.1.1 APAC Pyroelectric Infrared Sensor Sales by Region (2021-2026)

- 6.1.2 APAC Pyroelectric Infrared Sensor Revenue by Region (2021-2026)
- 6.2 APAC Pyroelectric Infrared Sensor Sales by Type (2021-2026)
- 6.3 APAC Pyroelectric Infrared Sensor Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe Pyroelectric Infrared Sensor by Country
 - 7.1.1 Europe Pyroelectric Infrared Sensor Sales by Country (2021-2026)
 - 7.1.2 Europe Pyroelectric Infrared Sensor Revenue by Country (2021-2026)
- 7.2 Europe Pyroelectric Infrared Sensor Sales by Type (2021-2026)
- 7.3 Europe Pyroelectric Infrared Sensor Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Pyroelectric Infrared Sensor by Country
 - 8.1.1 Middle East & Africa Pyroelectric Infrared Sensor Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Pyroelectric Infrared Sensor Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Pyroelectric Infrared Sensor Sales by Type (2021-2026)
- 8.3 Middle East & Africa Pyroelectric Infrared Sensor Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Pyroelectric Infrared Sensor
- 10.3 Manufacturing Process Analysis of Pyroelectric Infrared Sensor
- 10.4 Industry Chain Structure of Pyroelectric Infrared Sensor

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Pyroelectric Infrared Sensor Distributors
- 11.3 Pyroelectric Infrared Sensor Customer

12 WORLD FORECAST REVIEW FOR PYROELECTRIC INFRARED SENSOR BY GEOGRAPHIC REGION

- 12.1 Global Pyroelectric Infrared Sensor Market Size Forecast by Region
 - 12.1.1 Global Pyroelectric Infrared Sensor Forecast by Region (2027-2032)
 - 12.1.2 Global Pyroelectric Infrared Sensor Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Pyroelectric Infrared Sensor Forecast by Type (2027-2032)
- 12.7 Global Pyroelectric Infrared Sensor Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Excelitas Technologies
 - 13.1.1 Excelitas Technologies Company Information
 - 13.1.2 Excelitas Technologies Pyroelectric Infrared Sensor Product Portfolios and

Specifications

13.1.3 Excelitas Technologies Pyroelectric Infrared Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Excelitas Technologies Main Business Overview

13.1.5 Excelitas Technologies Latest Developments

13.2 Nippon Ceramic Co., Ltd.

13.2.1 Nippon Ceramic Co., Ltd. Company Information

13.2.2 Nippon Ceramic Co., Ltd. Pyroelectric Infrared Sensor Product Portfolios and Specifications

13.2.3 Nippon Ceramic Co., Ltd. Pyroelectric Infrared Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Nippon Ceramic Co., Ltd. Main Business Overview

13.2.5 Nippon Ceramic Co., Ltd. Latest Developments

13.3 Senba Sensing Technology

13.3.1 Senba Sensing Technology Company Information

13.3.2 Senba Sensing Technology Pyroelectric Infrared Sensor Product Portfolios and Specifications

13.3.3 Senba Sensing Technology Pyroelectric Infrared Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Senba Sensing Technology Main Business Overview

13.3.5 Senba Sensing Technology Latest Developments

13.4 Murata

13.4.1 Murata Company Information

13.4.2 Murata Pyroelectric Infrared Sensor Product Portfolios and Specifications

13.4.3 Murata Pyroelectric Infrared Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Murata Main Business Overview

13.4.5 Murata Latest Developments

13.5 Panasonic

13.5.1 Panasonic Company Information

13.5.2 Panasonic Pyroelectric Infrared Sensor Product Portfolios and Specifications

13.5.3 Panasonic Pyroelectric Infrared Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Panasonic Main Business Overview

13.5.5 Panasonic Latest Developments

13.6 InfraTec

13.6.1 InfraTec Company Information

13.6.2 InfraTec Pyroelectric Infrared Sensor Product Portfolios and Specifications

13.6.3 InfraTec Pyroelectric Infrared Sensor Sales, Revenue, Price and Gross Margin

(2021-2026)

13.6.4 InfraTec Main Business Overview

13.6.5 InfraTec Latest Developments

13.7 KEMET Electronics (YAGEO Group)

13.7.1 KEMET Electronics (YAGEO Group) Company Information

13.7.2 KEMET Electronics (YAGEO Group) Pyroelectric Infrared Sensor Product

Portfolios and Specifications

13.7.3 KEMET Electronics (YAGEO Group) Pyroelectric Infrared Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 KEMET Electronics (YAGEO Group) Main Business Overview

13.7.5 KEMET Electronics (YAGEO Group) Latest Developments

13.8 Heimann Sensors

13.8.1 Heimann Sensors Company Information

13.8.2 Heimann Sensors Pyroelectric Infrared Sensor Product Portfolios and Specifications

13.8.3 Heimann Sensors Pyroelectric Infrared Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Heimann Sensors Main Business Overview

13.8.5 Heimann Sensors Latest Developments

13.9 Hanwei Electronics Group

13.9.1 Hanwei Electronics Group Company Information

13.9.2 Hanwei Electronics Group Pyroelectric Infrared Sensor Product Portfolios and Specifications

13.9.3 Hanwei Electronics Group Pyroelectric Infrared Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Hanwei Electronics Group Main Business Overview

13.9.5 Hanwei Electronics Group Latest Developments

13.10 MEMSFrontier Electronics

13.10.1 MEMSFrontier Electronics Company Information

13.10.2 MEMSFrontier Electronics Pyroelectric Infrared Sensor Product Portfolios and Specifications

13.10.3 MEMSFrontier Electronics Pyroelectric Infrared Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 MEMSFrontier Electronics Main Business Overview

13.10.5 MEMSFrontier Electronics Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Pyroelectric Infrared Sensor Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Pyroelectric Infrared Sensor Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Traditional Sensor

Table 4. Major Players of Smart Sensor

Table 5. Global Pyroelectric Infrared Sensor Sales by Type (2021-2026) & (Units)

Table 6. Global Pyroelectric Infrared Sensor Sales Market Share by Type (2021-2026)

Table 7. Global Pyroelectric Infrared Sensor Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Pyroelectric Infrared Sensor Revenue Market Share by Type (2021-2026)

Table 9. Global Pyroelectric Infrared Sensor Sale Price by Type (2021-2026) & (USD/Unit)

Table 10. Major Players of Basic Functional Type

Table 11. Major Players of High-End Functional Type

Table 12. Global Pyroelectric Infrared Sensor Sales by Product Forms (2021-2026) & (Units)

Table 13. Global Pyroelectric Infrared Sensor Sales Market Share by Product Forms (2021-2026)

Table 14. Global Pyroelectric Infrared Sensor Revenue by Product Forms (2021-2026) & (\$ million)

Table 15. Global Pyroelectric Infrared Sensor Revenue Market Share by Product Forms (2021-2026)

Table 16. Global Pyroelectric Infrared Sensor Sale Price by Product Forms (2021-2026) & (USD/Unit)

Table 17. Major Players of Analog Type

Table 18. Major Players of Digital Type

Table 19. Global Pyroelectric Infrared Sensor Sales by Technology (2021-2026) & (Units)

Table 20. Global Pyroelectric Infrared Sensor Sales Market Share by Technology (2021-2026)

Table 21. Global Pyroelectric Infrared Sensor Revenue by Technology (2021-2026) & (\$ million)

Table 22. Global Pyroelectric Infrared Sensor Revenue Market Share by Technology (2021-2026)

Table 23. Global Pyroelectric Infrared Sensor Sale Price by Technology (2021-2026) & (USD/Unit)

Table 24. Global Pyroelectric Infrared Sensor Sale by Application (2021-2026) & (Units)

Table 25. Global Pyroelectric Infrared Sensor Sale Market Share by Application (2021-2026)

Table 26. Global Pyroelectric Infrared Sensor Revenue by Application (2021-2026) & (\$ million)

Table 27. Global Pyroelectric Infrared Sensor Revenue Market Share by Application (2021-2026)

Table 28. Global Pyroelectric Infrared Sensor Sale Price by Application (2021-2026) & (USD/Unit)

Table 29. Global Pyroelectric Infrared Sensor Sales by Company (2021-2026) & (Units)

Table 30. Global Pyroelectric Infrared Sensor Sales Market Share by Company (2021-2026)

Table 31. Global Pyroelectric Infrared Sensor Revenue by Company (2021-2026) & (\$ millions)

Table 32. Global Pyroelectric Infrared Sensor Revenue Market Share by Company (2021-2026)

Table 33. Global Pyroelectric Infrared Sensor Sale Price by Company (2021-2026) & (USD/Unit)

Table 34. Key Manufacturers Pyroelectric Infrared Sensor Producing Area Distribution and Sales Area

Table 35. Players Pyroelectric Infrared Sensor Products Offered

Table 36. Pyroelectric Infrared Sensor Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 37. New Products and Potential Entrants

Table 38. Market M&A Activity & Strategy

Table 39. Global Pyroelectric Infrared Sensor Sales by Geographic Region (2021-2026) & (Units)

Table 40. Global Pyroelectric Infrared Sensor Sales Market Share Geographic Region (2021-2026)

Table 41. Global Pyroelectric Infrared Sensor Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 42. Global Pyroelectric Infrared Sensor Revenue Market Share by Geographic Region (2021-2026)

Table 43. Global Pyroelectric Infrared Sensor Sales by Country/Region (2021-2026) & (Units)

Table 44. Global Pyroelectric Infrared Sensor Sales Market Share by Country/Region (2021-2026)

Table 45. Global Pyroelectric Infrared Sensor Revenue by Country/Region (2021-2026) & (\$ millions)

Table 46. Global Pyroelectric Infrared Sensor Revenue Market Share by Country/Region (2021-2026)

Table 47. Americas Pyroelectric Infrared Sensor Sales by Country (2021-2026) & (Units)

Table 48. Americas Pyroelectric Infrared Sensor Sales Market Share by Country (2021-2026)

Table 49. Americas Pyroelectric Infrared Sensor Revenue by Country (2021-2026) & (\$ millions)

Table 50. Americas Pyroelectric Infrared Sensor Sales by Type (2021-2026) & (Units)

Table 51. Americas Pyroelectric Infrared Sensor Sales by Application (2021-2026) & (Units)

Table 52. APAC Pyroelectric Infrared Sensor Sales by Region (2021-2026) & (Units)

Table 53. APAC Pyroelectric Infrared Sensor Sales Market Share by Region (2021-2026)

Table 54. APAC Pyroelectric Infrared Sensor Revenue by Region (2021-2026) & (\$ millions)

Table 55. APAC Pyroelectric Infrared Sensor Sales by Type (2021-2026) & (Units)

Table 56. APAC Pyroelectric Infrared Sensor Sales by Application (2021-2026) & (Units)

Table 57. Europe Pyroelectric Infrared Sensor Sales by Country (2021-2026) & (Units)

Table 58. Europe Pyroelectric Infrared Sensor Revenue by Country (2021-2026) & (\$ millions)

Table 59. Europe Pyroelectric Infrared Sensor Sales by Type (2021-2026) & (Units)

Table 60. Europe Pyroelectric Infrared Sensor Sales by Application (2021-2026) & (Units)

Table 61. Middle East & Africa Pyroelectric Infrared Sensor Sales by Country (2021-2026) & (Units)

Table 62. Middle East & Africa Pyroelectric Infrared Sensor Revenue Market Share by Country (2021-2026)

Table 63. Middle East & Africa Pyroelectric Infrared Sensor Sales by Type (2021-2026) & (Units)

Table 64. Middle East & Africa Pyroelectric Infrared Sensor Sales by Application (2021-2026) & (Units)

Table 65. Key Market Drivers & Growth Opportunities of Pyroelectric Infrared Sensor

Table 66. Key Market Challenges & Risks of Pyroelectric Infrared Sensor

Table 67. Key Industry Trends of Pyroelectric Infrared Sensor

Table 68. Pyroelectric Infrared Sensor Raw Material

Table 69. Key Suppliers of Raw Materials
Table 70. Pyroelectric Infrared Sensor Distributors List
Table 71. Pyroelectric Infrared Sensor Customer List
Table 72. Global Pyroelectric Infrared Sensor Sales Forecast by Region (2027-2032) & (Units)
Table 73. Global Pyroelectric Infrared Sensor Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 74. Americas Pyroelectric Infrared Sensor Sales Forecast by Country (2027-2032) & (Units)
Table 75. Americas Pyroelectric Infrared Sensor Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 76. APAC Pyroelectric Infrared Sensor Sales Forecast by Region (2027-2032) & (Units)
Table 77. APAC Pyroelectric Infrared Sensor Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 78. Europe Pyroelectric Infrared Sensor Sales Forecast by Country (2027-2032) & (Units)
Table 79. Europe Pyroelectric Infrared Sensor Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 80. Middle East & Africa Pyroelectric Infrared Sensor Sales Forecast by Country (2027-2032) & (Units)
Table 81. Middle East & Africa Pyroelectric Infrared Sensor Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 82. Global Pyroelectric Infrared Sensor Sales Forecast by Type (2027-2032) & (Units)
Table 83. Global Pyroelectric Infrared Sensor Revenue Forecast by Type (2027-2032) & (\$ millions)
Table 84. Global Pyroelectric Infrared Sensor Sales Forecast by Application (2027-2032) & (Units)
Table 85. Global Pyroelectric Infrared Sensor Revenue Forecast by Application (2027-2032) & (\$ millions)
Table 86. Excelitas Technologies Basic Information, Pyroelectric Infrared Sensor Manufacturing Base, Sales Area and Its Competitors
Table 87. Excelitas Technologies Pyroelectric Infrared Sensor Product Portfolios and Specifications
Table 88. Excelitas Technologies Pyroelectric Infrared Sensor Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)
Table 89. Excelitas Technologies Main Business
Table 90. Excelitas Technologies Latest Developments

Table 91. Nippon Ceramic Co., Ltd. Basic Information, Pyroelectric Infrared Sensor Manufacturing Base, Sales Area and Its Competitors

Table 92. Nippon Ceramic Co., Ltd. Pyroelectric Infrared Sensor Product Portfolios and Specifications

Table 93. Nippon Ceramic Co., Ltd. Pyroelectric Infrared Sensor Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 94. Nippon Ceramic Co., Ltd. Main Business

Table 95. Nippon Ceramic Co., Ltd. Latest Developments

Table 96. Senba Sensing Technology Basic Information, Pyroelectric Infrared Sensor Manufacturing Base, Sales Area and Its Competitors

Table 97. Senba Sensing Technology Pyroelectric Infrared Sensor Product Portfolios and Specifications

Table 98. Senba Sensing Technology Pyroelectric Infrared Sensor Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 99. Senba Sensing Technology Main Business

Table 100. Senba Sensing Technology Latest Developments

Table 101. Murata Basic Information, Pyroelectric Infrared Sensor Manufacturing Base, Sales Area and Its Competitors

Table 102. Murata Pyroelectric Infrared Sensor Product Portfolios and Specifications

Table 103. Murata Pyroelectric Infrared Sensor Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 104. Murata Main Business

Table 105. Murata Latest Developments

Table 106. Panasonic Basic Information, Pyroelectric Infrared Sensor Manufacturing Base, Sales Area and Its Competitors

Table 107. Panasonic Pyroelectric Infrared Sensor Product Portfolios and Specifications

Table 108. Panasonic Pyroelectric Infrared Sensor Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 109. Panasonic Main Business

Table 110. Panasonic Latest Developments

Table 111. InfraTec Basic Information, Pyroelectric Infrared Sensor Manufacturing Base, Sales Area and Its Competitors

Table 112. InfraTec Pyroelectric Infrared Sensor Product Portfolios and Specifications

Table 113. InfraTec Pyroelectric Infrared Sensor Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 114. InfraTec Main Business

Table 115. InfraTec Latest Developments

Table 116. KEMET Electronics (YAGEO Group) Basic Information, Pyroelectric Infrared Sensor Manufacturing Base, Sales Area and Its Competitors

Table 117. KEMET Electronics (YAGEO Group) Pyroelectric Infrared Sensor Product Portfolios and Specifications

Table 118. KEMET Electronics (YAGEO Group) Pyroelectric Infrared Sensor Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 119. KEMET Electronics (YAGEO Group) Main Business

Table 120. KEMET Electronics (YAGEO Group) Latest Developments

Table 121. Heimann Sensors Basic Information, Pyroelectric Infrared Sensor Manufacturing Base, Sales Area and Its Competitors

Table 122. Heimann Sensors Pyroelectric Infrared Sensor Product Portfolios and Specifications

Table 123. Heimann Sensors Pyroelectric Infrared Sensor Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 124. Heimann Sensors Main Business

Table 125. Heimann Sensors Latest Developments

Table 126. Hanwei Electronics Group Basic Information, Pyroelectric Infrared Sensor Manufacturing Base, Sales Area and Its Competitors

Table 127. Hanwei Electronics Group Pyroelectric Infrared Sensor Product Portfolios and Specifications

Table 128. Hanwei Electronics Group Pyroelectric Infrared Sensor Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 129. Hanwei Electronics Group Main Business

Table 130. Hanwei Electronics Group Latest Developments

Table 131. MEMSFrontier Electronics Basic Information, Pyroelectric Infrared Sensor Manufacturing Base, Sales Area and Its Competitors

Table 132. MEMSFrontier Electronics Pyroelectric Infrared Sensor Product Portfolios and Specifications

Table 133. MEMSFrontier Electronics Pyroelectric Infrared Sensor Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 134. MEMSFrontier Electronics Main Business

Table 135. MEMSFrontier Electronics Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Picture of Pyroelectric Infrared Sensor

Figure 2. Pyroelectric Infrared Sensor Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global Pyroelectric Infrared Sensor Sales Growth Rate 2021-2032 (Units)

Figure 7. Global Pyroelectric Infrared Sensor Revenue Growth Rate 2021-2032 (\$ millions)

Figure 8. Pyroelectric Infrared Sensor Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 9. Pyroelectric Infrared Sensor Sales Market Share by Country/Region (2025)

Figure 10. Pyroelectric Infrared Sensor Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of Traditional Sensor

Figure 12. Product Picture of Smart Sensor

Figure 13. Global Pyroelectric Infrared Sensor Sales Market Share by Type in 2026

Figure 14. Global Pyroelectric Infrared Sensor Revenue Market Share by Type (2021-2026)

Figure 15. Product Picture of Basic Functional Type

Figure 16. Product Picture of High-End Functional Type

Figure 17. Global Pyroelectric Infrared Sensor Sales Market Share by Product Forms in 2026

Figure 18. Global Pyroelectric Infrared Sensor Revenue Market Share by Product Forms (2021-2026)

Figure 19. Product Picture of Analog Type

Figure 20. Product Picture of Digital Type

Figure 21. Global Pyroelectric Infrared Sensor Sales Market Share by Technology in 2026

Figure 22. Global Pyroelectric Infrared Sensor Revenue Market Share by Technology (2021-2026)

Figure 23. Pyroelectric Infrared Sensor Consumed in Lighting Products

Figure 24. Global Pyroelectric Infrared Sensor Market: Lighting Products (2021-2026) & (Units)

Figure 25. Pyroelectric Infrared Sensor Consumed in Security Product

Figure 26. Global Pyroelectric Infrared Sensor Market: Security Product (2021-2026) &

(Units)

Figure 27. Pyroelectric Infrared Sensor Consumed in Smart Home

Figure 28. Global Pyroelectric Infrared Sensor Market: Smart Home (2021-2026) & (Units)

Figure 29. Pyroelectric Infrared Sensor Consumed in Consumer Electronics

Figure 30. Global Pyroelectric Infrared Sensor Market: Consumer Electronics (2021-2026) & (Units)

Figure 31. Pyroelectric Infrared Sensor Consumed in Others

Figure 32. Global Pyroelectric Infrared Sensor Market: Others (2021-2026) & (Units)

Figure 33. Global Pyroelectric Infrared Sensor Sale Market Share by Application (2025)

Figure 34. Global Pyroelectric Infrared Sensor Revenue Market Share by Application in 2026

Figure 35. Pyroelectric Infrared Sensor Sales by Company in 2026 (Units)

Figure 36. Global Pyroelectric Infrared Sensor Sales Market Share by Company in 2026

Figure 37. Pyroelectric Infrared Sensor Revenue by Company in 2026 (\$ millions)

Figure 38. Global Pyroelectric Infrared Sensor Revenue Market Share by Company in 2026

Figure 39. Global Pyroelectric Infrared Sensor Sales Market Share by Geographic Region (2021-2026)

Figure 40. Global Pyroelectric Infrared Sensor Revenue Market Share by Geographic Region in 2026

Figure 41. Americas Pyroelectric Infrared Sensor Sales 2021-2026 (Units)

Figure 42. Americas Pyroelectric Infrared Sensor Revenue 2021-2026 (\$ millions)

Figure 43. APAC Pyroelectric Infrared Sensor Sales 2021-2026 (Units)

Figure 44. APAC Pyroelectric Infrared Sensor Revenue 2021-2026 (\$ millions)

Figure 45. Europe Pyroelectric Infrared Sensor Sales 2021-2026 (Units)

Figure 46. Europe Pyroelectric Infrared Sensor Revenue 2021-2026 (\$ millions)

Figure 47. Middle East & Africa Pyroelectric Infrared Sensor Sales 2021-2026 (Units)

Figure 48. Middle East & Africa Pyroelectric Infrared Sensor Revenue 2021-2026 (\$ millions)

Figure 49. Americas Pyroelectric Infrared Sensor Sales Market Share by Country in 2026

Figure 50. Americas Pyroelectric Infrared Sensor Revenue Market Share by Country (2021-2026)

Figure 51. Americas Pyroelectric Infrared Sensor Sales Market Share by Type (2021-2026)

Figure 52. Americas Pyroelectric Infrared Sensor Sales Market Share by Application (2021-2026)

Figure 53. United States Pyroelectric Infrared Sensor Revenue Growth 2021-2026 (\$

millions)

Figure 54. Canada Pyroelectric Infrared Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 55. Mexico Pyroelectric Infrared Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 56. Brazil Pyroelectric Infrared Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 57. APAC Pyroelectric Infrared Sensor Sales Market Share by Region in 2026

Figure 58. APAC Pyroelectric Infrared Sensor Revenue Market Share by Region (2021-2026)

Figure 59. APAC Pyroelectric Infrared Sensor Sales Market Share by Type (2021-2026)

Figure 60. APAC Pyroelectric Infrared Sensor Sales Market Share by Application (2021-2026)

Figure 61. China Pyroelectric Infrared Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 62. Japan Pyroelectric Infrared Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 63. South Korea Pyroelectric Infrared Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 64. Southeast Asia Pyroelectric Infrared Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 65. India Pyroelectric Infrared Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 66. Australia Pyroelectric Infrared Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 67. China Taiwan Pyroelectric Infrared Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 68. Europe Pyroelectric Infrared Sensor Sales Market Share by Country in 2026

Figure 69. Europe Pyroelectric Infrared Sensor Revenue Market Share by Country (2021-2026)

Figure 70. Europe Pyroelectric Infrared Sensor Sales Market Share by Type (2021-2026)

Figure 71. Europe Pyroelectric Infrared Sensor Sales Market Share by Application (2021-2026)

Figure 72. Germany Pyroelectric Infrared Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 73. France Pyroelectric Infrared Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 74. UK Pyroelectric Infrared Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 75. Italy Pyroelectric Infrared Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 76. Russia Pyroelectric Infrared Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 77. Middle East & Africa Pyroelectric Infrared Sensor Sales Market Share by Country (2021-2026)

Figure 78. Middle East & Africa Pyroelectric Infrared Sensor Sales Market Share by Type (2021-2026)

Figure 79. Middle East & Africa Pyroelectric Infrared Sensor Sales Market Share by

Application (2021-2026)

Figure 80. Egypt Pyroelectric Infrared Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 81. South Africa Pyroelectric Infrared Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 82. Israel Pyroelectric Infrared Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 83. Turkey Pyroelectric Infrared Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 84. GCC Countries Pyroelectric Infrared Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 85. Manufacturing Cost Structure Analysis of Pyroelectric Infrared Sensor in 2026

Figure 86. Manufacturing Process Analysis of Pyroelectric Infrared Sensor

Figure 87. Industry Chain Structure of Pyroelectric Infrared Sensor

Figure 88. Channels of Distribution

Figure 89. Global Pyroelectric Infrared Sensor Sales Market Forecast by Region (2027-2032)

Figure 90. Global Pyroelectric Infrared Sensor Revenue Market Share Forecast by Region (2027-2032)

Figure 91. Global Pyroelectric Infrared Sensor Sales Market Share Forecast by Type (2027-2032)

Figure 92. Global Pyroelectric Infrared Sensor Revenue Market Share Forecast by Type (2027-2032)

Figure 93. Global Pyroelectric Infrared Sensor Sales Market Share Forecast by Application (2027-2032)

Figure 94. Global Pyroelectric Infrared Sensor Revenue Market Share Forecast by Application (2027-2032)

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