

Global PIR Detector Market Growth 2025-2031

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Abstracts

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The global PIR Detector market size is predicted to grow from US\$ 552 million in 2025 to US\$ 811 million in 2031; it is expected to grow at a CAGR of 6.6% from 2025 to 2031.

A PIR Detector, short for Passive Infrared Detector, is a sensor device used to detect motion or movement by sensing changes in infrared (IR) radiation emitted by objects in its field of view. PIR detectors are commonly employed in security systems, automatic lighting controls, and various automation applications to trigger actions based on the presence or absence of human or animal movement.

The global key manufacturers of Passive Infrared Detector (PIR) include OPTEX CO, AJAX, HIKVISION, Essence, Dahua, Axis Communications, Texcom, Crow Group, Tunstall, Atraltch, etc. In 2023, the global top 10 players had a share approximately 70.0% in terms of revenue.

The Passive Infrared (PIR) Detector market has experienced significant growth over the years, primarily due to its extensive use in security and automation systems. PIR sensors detect changes in infrared levels emitted by objects, such as humans, and are commonly used in motion sensors for security alarms, lighting control, and home automation.

Security Systems: The demand for PIR sensors in security applications is high due to their effectiveness in detecting unauthorized movement in monitored areas.

Automation and Control:

PIR sensors are vital for automated lighting controls, such as in hotels, office buildings, and public spaces, to save energy by switching off lights when no motion is detected.

Home Automation:With the rise of smart homes, PIR sensors are being integrated into systems that manage lighting, thermostats, and security, contributing to the growth of the market.

Industrial Applications:Factories and manufacturing units use PIR sensors for safety purposes and to automate machinery operation based on the presence of personnel.

Automotive:The automotive industry uses PIR technology for occupancy detection in vehicles, among other applications.

Trends:

Integration with IoT:The Internet of Things (IoT) is revolutionizing the way PIR sensors are used. They are increasingly integrated with IoT platforms for remote monitoring and management, enabling more sophisticated automation and smart city applications

Miniaturization:Technological advancements have led to the miniaturization of PIR sensors, making them more versatile and adaptable to a wider range of products and applications.

Energy Efficiency:As energy conservation becomes a critical concern, PIR sensors are playing a significant role in energy-saving initiatives. Their ability to detect motion and trigger responses only when necessary helps reduce energy consumption.

Improved Sensitivity and False Alarm Reduction:Ongoing improvements in PIR sensor technology are focused on increasing sensitivity and reducing false alarms, improving the reliability of security systems.

Enhanced Privacy:PIR sensors, unlike cameras, do not capture visual data, which makes them privacy-friendly. This feature is increasingly appealing to consumers and businesses alike.

Smart Cities:The development of smart city projects is driving the demand for PIR sensors as they are crucial components in the intelligent management of resources like lighting, surveillance, and public safety.

Market Consolidation:As the market matures, there is a trend toward consolidation, with larger companies acquiring smaller ones to expand their product lines and market reach.

Regulatory Compliance:With the increase in privacy regulations, such as the General Data Protection Regulation (GDPR) in Europe, there may be implications for how PIR sensors are used, requiring manufacturers to ensure their products comply with such standards

Market Forecast:The PIR sensor market is expected to grow at a steady rate over the coming years, driven by the increasing adoption of smart home technologies, security concerns, and energy-saving initiatives. As technology continues to evolve, so will the sophistication and applications of PIR sensors, further propelling market growth.

LP Information, Inc. (LPI) ' newest research report, the "PIR Detector Industry Forecast" looks at past sales and reviews total world PIR Detector sales in 2024, providing a comprehensive analysis by region and market sector of projected PIR Detector sales for 2025 through 2031. With PIR Detector sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world PIR Detector industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for PIR Detector 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 PIR Detector.

This report presents a comprehensive overview, market shares, and growth opportunities of PIR Detector market by product type, application, key manufacturers

and key regions and countries.

Segmentation by Type:

Indoor PIR Detector

Outdoor PIR Detector

Segmentation by Application:

Residential

Commercial

Industrial

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.

AJAX

HIKVISION

Dahua

Axis Communications

Texcom

Tunstall

OPTEX CO

Atraltech

Jablotron

Pyronix

Crow Group

Takenaka Engineering

ELKO EP

ZUDEN

Ningbo Pdlux Electronic

Shenzhen MINGQIAN

Essence

HW Group

Key Questions Addressed in this Report

What is the 10-year outlook for the global PIR Detector market?

What factors are driving PIR Detector market growth, globally and by region?

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

How do PIR Detector market opportunities vary by end market size?

How does PIR Detector break out by Type, by Application?

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