

Global PIR Detector Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global PIR Detector market size was valued at US\$ 581 million in 2024 and is forecast to a readjusted size of USD 883 million by 2031 with a CAGR of 6.2% during review period.

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, Atraltech, 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.

This report is a detailed and comprehensive analysis for global PIR Detector 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 PIR Detector market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global PIR Detector market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global PIR Detector market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global PIR Detector market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

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 PIR Detector

To forecast future growth in each product and end-use market

To forecast future factors affecting the marketplace

This report profiles key players in the global PIR Detector 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 AJAX, HIKVISION, Dahua, Axis Communications, Texcom, Tunstall, OPTEX CO, Atraltech, Jablotron, Pyronix, etc.

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

Market Segmentation

PIR Detector market is split by Type and by Application. For the period 2020-2031, 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

Indoor PIR Detector

Outdoor PIR Detector

Market segment by Application

Residential

Commercial

Industrial

Major players covered

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

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 PIR Detector product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of PIR Detector, with price, sales quantity, revenue, and global market share of PIR Detector from 2020 to 2025.

Chapter 3, the PIR Detector competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the PIR Detector breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and PIR Detector market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 PIR Detector.

Chapter 14 and 15, to describe PIR Detector sales channel, distributors, customers, research findings and conclusion.

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