

Global PIR Sensors Market Growth 2025-2031

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Abstracts

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

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

PIR Sensors are also known as Passive Infrared Sensors. They are constructed from an array of solid-state sensors made from pyroelectric materials that generate a voltage when exposed to heat. They are used in thermal sensing applications, including security sensors and motion detectors. The devices work because thermal changes modify the crystalline structure of the polar crystals of a material. The associated stress and strain generates a voltage. They are typically around 1 inch square and are a flat film. They may incorporate some focusing mechanism to capture and direct infrared radiation to the film surface. This is commonly a plastic window with many Fresnel facets that combine to form a lens to suit the application. Differential detection (detecting changes or differences from an ambient reading) can be used as motion detectors, and this makes them very suitable for burglar alarm sensors. They can have a variety of sensitivities usually expressed as a sensing distance and can be either component mounted on a PCB or a whole mechanically enclosed module. They may have a manually adjustable trigger point, or be configurable using a logic interface (for example a serial port). They may also have a single trigger output that may be in open drain or open collector configuration to enable many PIR Detectors to be placed in parallel with each other.

United States market for PIR Sensors is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for PIR Sensors is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for PIR Sensors is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key PIR Sensors players cover Adafruit Industries, Diodes Incorporated, Excelitas Technologies, Integrated Silicon Solution, IXYS, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

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

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

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

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

Segmentation by Type:

Analog PIR Sensors

Digital PIR Sensors

Segmentation by Application:

Security Alarm System

Lighting/Switch Controller

Household Electrical Appliances

Stepper Motor Control System

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.

Adafruit Industries

Diodes Incorporated

Excelitas Technologies

Integrated Silicon Solution

IXYS

KEMET

Murata

Panasonic

Seeed

SparkFun

Zilog

Key Questions Addressed in this Report

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

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

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

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

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

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