

# Global Passive Infrared Detector (PIR) Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global Passive Infrared Detector (PIR) market size will reach 484.08 Million USD in 2025 and is projected to reach 985.54 Million USD by 2032, with a CAGR of 10.69% (2025-2032). Notably, the China Passive Infrared Detector (PIR) market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

A Passive Infrared Detector (PIR) is a sensor commonly used in security systems, lighting controls, and various applications to detect the presence of human or animal movement within its field of view. PIR detectors work based on the detection of infrared radiation emitted by warm objects, such as the human body, in the form of heat. These sensors consist of two or more sensitive materials, and when a warm object moves within the detection range, it causes a change in the thermal radiation pattern, which the PIR sensor registers as a trigger signal. PIR detectors are often used in motion-activated lights, alarms, and smart home devices, allowing for energy-efficient and automated control based on human presence, making them an essential component in enhancing security and energy savings in various settings.

The major global manufacturers of Passive Infrared Detector (PIR) include Excelitas, Shanghai Nicera Sensor, Senba Sensing, Panasonic, Nippon Ceramic, Murata, Winsensor, Winsensor, InfraTec, Fuji Ceramics, HeimannSensors, etc. The global players competition landscape in this report is divided into three tiers. The first tier

comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Passive Infrared Detector (PIR). Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Passive Infrared Detector (PIR) market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Passive Infrared Detector (PIR) market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Passive Infrared Detector (PIR) industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Passive Infrared Detector (PIR) Include:

Excelitas

Shanghai Nicera Sensor

Senba Sensing

Panasonic

Nippon Ceramic

Murata

Winsensor

Winsensor

InfraTec

Fuji Ceramics

HeimannSensors

Passive Infrared Detector (PIR) Product Segment Include:

Single Element

Dual Element

Others

Passive Infrared Detector (PIR) Product Application Include:

Lighting Control

Security Application

Home Appliance Control

Others

## **Chapter Scope**

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