

Global Passive Infrared Detector (PIR) Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Passive Infrared Detector (PIR) market size was valued at USD 348.4 million in 2023 and is forecast to a readjusted size of USD 433.1 million by 2030 with a CAGR of 3.2% during review period.

A passive infrared sensor (PIR sensor) is an electronic sensor that measures infrared (IR) light radiating from objects in its field of view. They are most often used in PIR-based motion detectors.

Senba Sensing is the largest manufacturer of passive infrared detector (PIR) in the world. Other players include Excelitas, Shanghai Nicera Sensor, Panasonic and Nippon Ceramic, etc.

Geographically speaking, Asia-Pacific is the largest market, has a market share of about 70%. In terms of type, dual element is most popular and has a market share of over 45%. In terms of application, lighting control is the dominant product using passive infrared detector (PIR) and accounts for over 40% market share.

The Global Info Research report includes an overview of the development of the Passive Infrared Detector (PIR) industry chain, the market status of Indoor Security System (Single-beam, Multi-beam), Outdoor Security System (Single-beam, Multi-beam), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Passive Infrared Detector (PIR).

Regionally, the report analyzes the Passive Infrared Detector (PIR) markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Passive Infrared Detector (PIR) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Passive Infrared Detector (PIR) market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Passive Infrared Detector (PIR) industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Singal-beam, Multi-beam).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Passive Infrared Detector (PIR) market.

Regional Analysis: The report involves examining the Passive Infrared Detector (PIR) market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Passive Infrared Detector (PIR) market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Passive Infrared Detector (PIR):

Company Analysis: Report covers individual Passive Infrared Detector (PIR) manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios,

partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Passive Infrared Detector (PIR). This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Indoor Security System, Outdoor Security System).

Technology Analysis: Report covers specific technologies relevant to Passive Infrared Detector (PIR). It assesses the current state, advancements, and potential future developments in Passive Infrared Detector (PIR) areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Passive Infrared Detector (PIR) market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Passive Infrared Detector (PIR) market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Singal-beam

Multi-beam

Market segment by Application

Indoor Security System

Outdoor Security System

Major players covered

Tyco Security Products (DSC)

Optex

Aleph America

Microchip Technology

Honeywell International

Murata Manufacturing

Panasonic

Bosch

Cypress Semiconductor

Elmos Semiconductor

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 Passive Infrared Detector (PIR) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Passive Infrared Detector (PIR), with price, sales, revenue and global market share of Passive Infrared Detector (PIR) from 2019 to 2024.

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

Chapter 4, the Passive Infrared Detector (PIR) breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Passive Infrared Detector (PIR) market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Passive Infrared Detector (PIR).

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

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