

# Global Passive Infrared Sensors 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 Sensors market size was valued at USD 560.8 million in 2023 and is forecast to a readjusted size of USD 797.9 million by 2030 with a CAGR of 5.2% 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.

Infrared sensors detect and measure infrared radiation, finding applications in various industries such as automotive, aerospace, and consumer electronics. Factors driving market growth include increasing demand for security and surveillance systems, advancements in sensor technology, and the rising adoption of automation in various sectors. The market is competitive, with several key players offering a wide range of infrared sensors. However, challenges such as high cost, limited detection range, and complex integration requirements may hinder market growth. Nonetheless, the infrared sensors market holds promising opportunities, driven by the increasing need for non-contact temperature measurement, gesture recognition, and night vision applications.

The Global Info Research report includes an overview of the development of the Passive Infrared Sensors industry chain, the market status of Consumer Electronics (Thermal, Quantum), Aerospace and Defense (Thermal, Quantum), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Passive Infrared Sensors.

Regionally, the report analyzes the Passive Infrared Sensors 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 Sensors market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Passive Infrared Sensors 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 Sensors 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., Thermal, Quantum).

**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 Sensors market.

**Regional Analysis:** The report involves examining the Passive Infrared Sensors 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 Sensors 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 Sensors:

**Company Analysis:** Report covers individual Passive Infrared Sensors 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 Sensors. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Consumer Electronics, Aerospace and Defense).

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

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Passive Infrared Sensors 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 Sensors 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

Thermal

Quantum

### Market segment by Application

Consumer Electronics

Aerospace and Defense

Mining

Oil and Gas

Other

#### Major players covered

Murata Manufacturing

Hamamatsu Photonics

Excelitas Technologie

Teledyne

Raytheon

InfraTec GmbH

FLIR Systems

Nippon Avionics

Honeywell International

Texas Instruments

Amphen

#### 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 Sensors product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Passive Infrared Sensors 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 Sensors 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 Sensors.

Chapter 14 and 15, to describe Passive Infrared Sensors sales channel, distributors, customers, research findings and conclusion.

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