Passive Infrared Motion Sensor Market by Type (Single Beam Type, Multi-Beam Type), Application (Security Application, Commercial Application, Smart Home Application, Military and Defense Application), and Region 2023-2028

Market Report | 2023-07-05 | 150 pages | IMARC Group

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Report description:

Market Overview:

The global passive infrared motion sensor market size reached US$ 9.09 Billion in 2022. Looking forward, IMARC Group expects the market to reach US$ 18.9 Billion by 2028, exhibiting a growth rate (CAGR) of 13.10% during 2023-2028. The rising demand for smart home appliances, the enhancing focus on energy-efficient solutions, and the widespread product utilization across the automotive and defense sectors represent some of the key factors driving the market.

Passive infrared (PIR) motion sensors are electronic devices that detect moving objects or individuals based on changes in infrared radiation emitted by living beings and other heat-emitting sources. These sensors operate on the principle that objects emit infrared radiation as heat. When a moving object enters the sensor's field of view, it causes a change in the infrared energy pattern detected by the sensors. The PIR sensor then generates an electrical signal, which can trigger various actions, such as activating an alarm or video recording, adjusting the intensity of lights, and regulating heating, ventilation, and air conditioning (HVAC) systems, based on occupancy. They offer numerous advantages, such as quick response time, low power consumption, and cost-effectiveness. As a result, they are widely employed in homes, offices, commercial buildings, outdoor spaces, and public areas for security, lighting control, and energy management applications.

Passive Infrared Motion Sensor Market Trends:
The growing adoption of smart home systems that utilize motion sensors for security, lighting control, and energy management represents one of the prime factors driving the market growth. Besides this, the proliferation of the Internet of Things (IoT)-based devices and the need for smart connectivity are contributing to the market growth as PIR motion sensors enable automation and

interaction among these devices. Moreover, the escalating consumer concerns regarding safety and security are fueling the demand for enhanced intrusion detection systems and surveillance cameras integrated with PIR motion sensors, thus favoring the market growth. In addition to this, governments and organizations worldwide are emphasizing the adoption of energy-efficient solutions, leading to the integration of PIR motion sensors in lighting systems to enable automated control and energy savings, which, in turn, is creating a positive outlook for the market. Concurrent with this, the rising product utilization across retail and commercial spaces is acting as a significant growth-inducing factor. Furthermore, ongoing advancements in PIR sensor technology, including improved sensitivity, reduced false alarms, and enhanced detection range, are aiding in market expansion. In line with this, the integration of innovative technologies, such as wireless connectivity, voice control, and artificial intelligence in PIR motion sensors to provide enhanced functionality, is presenting remunerative growth opportunities for the market. Other factors, such as rapid urbanization and infrastructure development of smart cities and buildings, extensive product adoption in the automotive, aerospace, and defense industries, and favorable government regulations promoting environmental sustainability, are propelling the market forward.

Key Market Segmentation:
IMARC Group provides an analysis of the key trends in each segment of the global passive infrared motion sensor market, along with forecasts at the global, regional, and country levels from 2023-2028. Our report has categorized the market based on type and application.

Type Insights:

Single Beam Type
Multi-Beam Type

The report has provided a detailed breakup and analysis of the passive infrared motion sensor market based on the type. This includes single and multi-beam types.

Application Insights:

Security Application
Commercial Application
Smart Home Application
Military and Defense Application

A detailed breakup and analysis of the passive infrared motion sensor market based on the application has also been provided in the report. This includes security, commercial, smart home, and military and defense applications. According to the report, security application accounted for the largest market share.

Regional Insights:

North America
United States
Canada
Asia Pacific
China
Japan
India
South Korea

Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America was the largest market for passive infrared motion sensor. Some of the factors driving the North America passive infrared motion sensor market included the expanding development of smart cities, favorable government policies regarding energy-efficient solutions, and the growing demand for advanced security systems.

Competitive Landscape:
The report has also provided a comprehensive analysis of the competitive landscape in the global passive infrared motion sensor market. Detailed profiles of all major companies have been provided. Some of the companies covered include Elmos Semiconductor SE, Honeywell International Inc., Panasonic Holdings Corporation, Robert Bosch GmbH, etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report:
How has the global passive infrared motion sensor market performed so far, and how will it perform in the coming years?
What are the drivers, restraints, and opportunities in the global passive infrared motion sensor market?
What is the impact of each driver, restraint, and opportunity on the global passive infrared motion sensor market?
What are the key regional markets?
Which countries represent the most attractive passive infrared motion sensor market?
What is the breakup of the market based on the type?
Which is the most attractive type in the passive infrared motion sensor market?
What is the breakup of the market based on the application?
Which is the most attractive application in the passive infrared motion sensor market?
What is the competitive structure of the global passive infrared motion sensor market?
Who are the key players/companies in the global passive infrared motion sensor market?

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