

Global Motion Sensor Market Report and Forecast 2023-2028

Market Report | 2023-10-25 | 155 pages | EMR Inc.

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Report description:

Global Motion Sensor Market Report and Forecast 2023-2028

Market Outlook

According to the report by Expert Market Research (EMR), the global motion sensor market is projected to grow at a CAGR of 7.6% between 2023 and 2028. Aided by the expanding realms of automation, advanced security systems, and the burgeoning smart device industry, the market is expected to reach a value of USD 9.15 billion by 2028.

Motion sensors, often referred to as motion detectors, are integral components that detect and track movements, primarily of humans, within a designated vicinity. They play a pivotal role in diverse applications such as home security systems, mobile phones, game consoles, and industrial machinery. Their capability to save energy, coupled with providing convenience and enhanced security, sets them apart as critical technological tools in modern living.

The burgeoning trend of home automation and smart homes is one of the major catalysts driving the global motion sensor market growth. As consumers globally are tilting towards technologically advanced homes that offer convenience, efficiency, and security, the integration of motion sensors in lighting, home appliances, and security devices becomes paramount. These sensors, when implemented, ensure that lights are turned off when no movement is detected, enhancing energy conservation, and provide security by sending alerts during unauthorised movements.

According to the motion sensor market analysis, the uptrend in the adoption of advanced security systems in both residential and commercial sectors further amplifies the demand for motion sensors. With rising urbanisation and the resultant increase in security threats, there is a marked emphasis on fortifying security measures. Motion sensors, particularly in security cameras and alarms, have become an indispensable tool in this protective armor, alerting individuals or security agencies to possible intrusions.

The dynamic world of gaming and entertainment is yet another domain which is boosting the motion sensor market demand. The evolution of virtual reality (VR) and augmented reality (AR) games, where player movements are replicated in the virtual arena, leans heavily on precise motion detection. This immersive experience, fast gaining popularity among gaming aficionados, amplifies the relevance of motion sensors in gaming consoles and VR headsets.

In the industrial landscape, motion sensors play a crucial role in machinery and robotics. Automated assembly lines, reliant on precise motion detection to enhance efficiency and reduce errors, are increasingly adopting motion sensors. These sensors aid in

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ensuring safety by halting machinery when unexpected movement, say of a worker too close to a machine, is detected, thus preventing potential accidents.

Furthermore, the thriving domain of smartphones and wearables sees motion sensors as integral components. Features like screen rotation, play/pause during video playback based on eye movement, or fitness tracking in wearables hinge on the capabilities of motion sensors. As the appetite for smarter and more feature-rich gadgets grows, the integration of motion sensors in these devices becomes even more pronounced.

However, the motion sensor market outlook is not merely confined to the sectors mentioned. The health and fitness industry, with devices tracking exercises, sleep patterns, and more, leans on motion sensors. Similarly, the automotive industry, with innovations like automated parking, also integrates these sensors.

Market Segmentation

The market can be divided based on motion technology, application, and region.

Market Breakup by Motion Technology

- Infrared
- Ultrasonic
- Microwave
- Dual Technology
- Tomographic
- Others

Market Breakup by Application

- Consumer Electronics
- Automotive
- Aerospace and Defence
- Healthcare
- Industrial
- Others

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Competitive Landscape

The EMR report looks into the market shares, plant turnarounds, capacities, investments, and mergers and acquisitions, among other major developments, of the leading companies operating in the global motion sensor market. Some of the major players explored in the report by Expert Market Research are as follows:

- ST Microelectronics N.V
- Murata Manufacturing Co., Ltd.
- Honeywell International Inc.
- NXP Semiconductors N.V
- Analog Devices Inc.
- Microchip Technology Inc.
- InvenSense, Inc.
- Bosch Sensortec GmbH
- KIONIX, Inc.
- MEMSIC Semiconductor (Tianjin) Co., Ltd.
- Others

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