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Global Motion Sensor Market Size study & Forecast, by Technology (Infrared, Ultrasonic, Microwave, Dual Technology, Tomographic, Others) by Application (Consumer Electronics, Automotive, Aerospace & Defense, Healthcare, Industrial, Others) and Regional Analysis, 2023-2030

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Abstracts

Global Motion Sensor Market is valued approximately USD XX billion in 2022 and is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2023-2030. A motion sensor, also known as a motion detector or motion sensor switch, is an electronic device that detects motion or movement within its range. It is commonly used in various applications, such as security systems, automatic lighting systems, and home automation. Motion sensors enhance safety, security, convenience, and energy efficiency in various applications by detecting and responding to motion or movement. The Motion Sensor market is expanding because of factors such as rising growth in automotive industry and increase in the use of wearables such as smartwatches.

Motion sensors are increasingly in demand in the automobile sector as a result of their widespread application in advanced driver assistance systems (ADAS) and micro-electromechanical systems (MEMS). MEMS sensors are also commonly employed because of their small size and affordable nature. MEMS sensors are employed in the automotive industry as pressure sensors and motion sensors (accelerometers and gyroscopes). Thus, rising adoption of ADAS system is driving the market growth. For instance, the Indian Government introduced a mandate which will bring Advanced Driver Assist Systems (ADAS) in all cars by 2022. Along with these, according to Statista, the number of autonomous cars in 2019 was 31.4 million units; in 2022, the

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number reached 43.57 million units, and it is anticipated to reach 54.2 million by 2024. As a result, the rising demand for autonomous cars is anticipated to create a lucrative demand for the market rapidly growing motion gaming industry and increasing industrial automation is creating a lucrative opportunity to the market. However, the high cost of motion sensor stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Motion Sensor Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Europe is dominating the market share in year 2022, owing to factors such as rising penetration of factory automation, rising adoption of industry 4.O and adoption of robotics technology in the region. Asia Pacific has significant growth in the market owing to rising demand from automotive industry, rising smartphones penetration, and rising investment in sensor technology.

Major market player included in this report are:

Honeywell International, Inc.

InvenSense

Kionix Inc.

Memsic Inc.

MEMSIC Semiconductor (Tianjin) Co., Ltd. (c).

Microchip Technology Inc.

Murata Manufacturing Co., Ltd.

NXP Semiconductors N.V.

Robert Bosch GmbH

TDK Corporation

Recent Developments in the Market:

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In January 2022, TDK Corporation announced the launch of the 6-axis InvenSense ICM-45xx SmartMotion ultra-high-performance (UHP) family of MEMS motion sensors. This series introduced the industry's lowest power usage as well as the first BalancedGyro (BG) technology that self-calibrates on the chip. Additionally, it greatly enhanced the level of vibration rejection and temperature stability. Robotic hoover cleaners and cellphones have profited immensely from this technology because it has minimal gyro drift requirements due to temperature and vibration variations.

In May 2020, Murata Manufacturing Co. Ltd. unveiled brand-new six-degrees-of-freedom MEMS (Micro-Electro-Mechanical Systems) for use in essential vehicle applications. The company believes that by utilising this new sensor, ADAS (Advanced Driver-Assistance devices) devices would be able to operate with centimeter-level accuracy when assessing a vehicle's location and dynamics.

Global Motion Sensor Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Technology, Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst’s working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to

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incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Technology:

Infrared

Ultrasonic

Microwave

Dual Technology

Tomographic

Others

By Application:

Consumer Electronics

Automotive

Aerospace & Defense

Healthcare

Industrial

Others

By Region:

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U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

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Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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