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Motion Sensor Market Size, Share & Trends Analysis Report By Technology (Infrared, Ultrasonic, Microwave, Dual Technology, Tomographic, Others), By Application, By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

This report can be delivered to the clients within 3 Business Days

Motion Sensor Market Growth & Trends

The global motion sensor market size is estimated treach USD 13.99 billion by 2030, expanding at a CAGR of 9.9% from 2025 t2030, according ta new report by Grand View Research, Inc. Increasing adoption of motion sensors in robotics and gaming applications such as joystick, Augmented Reality (AR) devices, and other gaming accessories have influenced the use of sensing techniques. Significant opportunities in the consumer electronics segment are likely tenhance market growth. For instance, trends in wearable devices have resulted in enormous demand for their variants.

Augmented Reality (AR) and Virtual Reality (VR) are becoming increasingly popular trends in the realm of consumer electronics.AR/VR applications are now a key battleground for smartphones as well as wearable devices such as smart glasses, VR gloves, VR motion chairs, and Head-mounted Displays (HMDs).Motion sensing is a key ingredient in the portable designs built around AR and VR applications. In the past five years, the number of VR users has risen t150+ million in 2018, from 1 million in 2014. These applications are expected tprovide lucrative opportunities tmarket players. Inertial measurement units (IMU) that use a combination of accelerometer, gyroscope, and magnetometer ensure the stability in environments with high movement fluctuations often encountered in HMDs and AR applications such as smart glasses. Increasing

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demand for IMUs is expected tdrive the market over the forecast period.

Under the AR/VR domain, these sensors are widely used in gaming applications. A motion gaming system, alscalled a motion-controlled gaming system, is one that allows players tinteract with the system through body movements. In recent years, there has been a significant rise in demand for interactive videgames. Growing demand for interactive games can be attributed trise in penetration of smartphones and wearables, which provides a lucrative opportunity tmanufacturers in the consumer electronics end-use industry.

Motion Sensor Market Report Highlights

Growing emphasis of leading technology companies on increasing awareness regarding these sensors in Asia Pacific is a key trend. Intel Corporation recently exhibited advanced applications of motion sensors at the CES Asia – a trade fair organized by Consumer Technology Association (CTA)

The microwave segment is expected tgrow significantly in the next few years owing ttheir ability toperate in the K-band frequency range, which makes them resistant tinterference from external radar sources

The healthcare segment is expected tgain traction as a result of growing demand for wireless body area networks and smart pill boxes that incorporate motion sensors

Asia Pacific is expected grow significantly over the forecast period owing tincreasing product adoption for detection and prediction of earthquakes and tsunamis in countries such as Indonesia and Japan

Key players in the motion sensor market are TE Connectivity; Honeywell International Inc.; Kionix, Inc.; Murata Manufacturing Co., Ltd.; NXP Semiconductors; Robert Bosch GmbH; SENSINOVA; STMicroelectronics; TE Connectivity Ltd.; and TDK Corporation.

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