

Wearable Inertial Sensors Market Size Worth \$12.59 Billion by 2029 - Exclusive Report by The Business Research Company

The Business Research Company's Wearable Inertial Sensors Global Market Report 2025 – Market Size, Trends, And Forecast 2025-2034

LONDON, GREATER LONDON, UNITED KINGDOM, October 7, 2025 /EINPresswire.com/ -- How Much Is The Wearable Inertial Sensors Market Worth?



The market size for wearable inertial sensors has seen quick expansion in recent times. The market, which was valued at \$7.49 billion in 2024, is forecasted to rise to \$8.33 billion in 2025, with a compound annual growth rate (CAGR) of 11.2%. This notable growth in the past can be



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accredited to the escalating use of fitness trackers and smartwatches, the burgeoning demand for remote health monitoring systems, the mounting interest in sports and athletic performance monitoring, increased usage of motion detection in gaming and entertainment, and the expanding use of wearables in military and defense training.

Expectations are high for the rapid expansion of the wearable inertial sensors market in the approaching years, with a projected market value of \$12.59 billion by 2029 and

a cumulative annual growth rate (CAGR) of 10.9%. This upsurge during the projected period can be traced back to a rise in utilization of wearable devices for elderly care and fall detection, an escalating need for persistent monitoring in chronic disease management, an increase in the adoption of wearable sensors for productivity tracking at workplaces, growing use in autonomous vehicles' human-machine interaction systems, and an uptick in the use of wearable sensors in the realm of sports analytics and e-sports. Foreseen trends for the forecast window encompass the development of smart fabrics incorporating embedded inertial sensors, the production of wearable healthcare monitoring devices, the inclusion of inertial sensors in

augmented reality gadgets, the implementation of multi-sensor fusion for improved precision, and the integration of sensors with telemedicine platforms.

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What Are The Factors Driving The Wearable Inertial Sensors Market?

The upsurge in the need for remote patient observation is anticipated to stimulate the growth of the wearable inertial sensors market in the future. The concept of remote patient monitoring involves the use of advanced digital tools to gather and transfer health data from patients in non-clinical environments to medical professionals for evaluation and treatment. The rise in this demand is attributed to the increased incidence of chronic illnesses, with patients needing persistent tracking and timely intervention for positive health results. Wearable inertial sensors enhance remote patient monitoring by offering continuous motion tracking, making them an essential tool in healthcare and aged care. They can decrease the necessity for regular clinic visits by offering instant mobility and activity data, thereby making patient outcomes and care efficiency better. For example, a survey by Vivalink, a healthcare technology firm based in the US, indicated in August 2023 that 81% of healthcare workers utilized remote patient monitoring (RPM), which is an enormous elevation from 20% in 2021, equating to a 305% surge. As such, the burgeoning demand for remote patient monitoring is propelling the expansion of the wearable inertial sensors market.

Who Are The Major Players In The Wearable Inertial Sensors Market? Major players in the Wearable Inertial Sensors Global Market Report 2025 include:

- Panasonic Holdings Corporation
- Honeywell International Inc.
- Safran Sensing Technologies SAS
- Texas Instruments Incorporated
- TDK Corporation
- TE Connectivity Ltd.
- STMicroelectronics N.V.
- Murata Manufacturing Co. Ltd.
- NXP Semiconductors N.V.
- Analog Devices Inc.

What Are The Key Trends And Market Opportunities In The Wearable Inertial Sensors Sector? Leading businesses in the wearable inertial sensors market are placing a strong emphasis on the creation of sophisticated products like advanced 6-axis inertial measurement units. This enhances the accuracy of motion tracking and facilitates seamless integration within multiple sectors including healthcare, sports, and fitness. By fusing a 3-axis accelerometer and a 3-axis gyroscope, advanced 6-axis inertial measurement units are compact sensor systems that measure movement, orientation, and speed effectively in real time. To illustrate, STMicroelectronics NV, a semiconductor manufacturing firm based in Switzerland, debuted the

LSM6DSV16X, a sophisticated 6-axis inertial measurement unit (IMU) in November 2022. This IMU extensively employs sensor fusion, artificial intelligence (AI), and adaptive self-configuration to boost power efficiency. It integrates a digital 3-axis accelerometer and a 3-axis gyroscope within a unique triple-core design which allows for the concurrent processing of user interface, optical image stabilization (OIS), and electronic image stabilization (EIS) data. Additionally, it features an embedded sensor fusion, a machine learning core (MLC) that supports AI-driven situational awareness, adaptive self-configuration for real-time motion-based tuning, and the ability to sense the variation in Qvar electric charge for support of advanced user interface functionalities such as swipe and tap gestures.

Which Segment Accounted For The <u>Largest Wearable Inertial Sensors Market Share?</u>
The wearable inertial sensors market covered in this report is segmented

- 1) By Sensor Type: Accelerometers, Gyroscopes, Magnetometers, Inertial Measurement Units (IMUs), Integrated 3- Or 6-Axis Units, Pressure And Force Sensors, Temperature And Biosensors
- 2) By Technology: Micro-Electro-Mechanical Systems, Quantum Sensors, Optical Sensors, Hybrid Sensors
- 3) By Application: Sports And Fitness Tracking, Healthcare And Rehabilitation Monitoring, Industrial And Worker Safety Monitoring, Military And Defense Training Systems, Augmented Reality Or Virtual Reality (VR) And Motion Gaming, Elderly Monitoring And Fall Detection
- 4) By Distribution Channel: Online Stores, Retail Outlets, Direct Sales, Third-party Distributors
- 5) By End User: Individuals, Healthcare Providers, Automotive Manufacturers, Defense Organizations

Subsegments:

- 1) By Accelerometers: Piezoelectric, Capacitive, Microelectromechanical, Servo
- 2) By Gyroscopes: Optical, Vibratory, Microelectromechanical, Ring Laser
- 3) By Magnetometers: Fluxgate, Hall Effect, Proton Precession, Anisotropic Magnetoresistive
- 4) By Inertial Measurement Units: Three Axis, Six Axis, Nine Axis, Multi Sensor
- 5) By Integrated Three Or Six Axis Units: Three Axis Accelerometer, Three Axis Gyroscope, Six Axis Combination, Sensor Fusion
- 6) By Pressure And Force Sensors: Capacitive, Piezoelectric, Piezoresistive, Strain Gauge
- 7) By Temperature And Biosensors: Thermocouple, Resistance Temperature Detector, Thermistor, Enzyme Based

View the full wearable inertial sensors market report:

 $\underline{https://www.thebusinessresearchcompany.com/report/wearable-inertial-sensors-global-market-\underline{report}$

What Are The Regional Trends In The Wearable Inertial Sensors Market? In 2024, North America dominated the global market for wearable inertial sensors. However, Asia-Pacific is projected to witness the most rapid growth in the forthcoming period. The report covering the wearable inertial sensors market encapsulates regions like Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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