

10 Years of Huawei Wearables: How They Revolutionised Sports and Health Monitoring

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In 2014, Huawei made its foray into wearables with the HUAWEI TalkBand B1, igniting a decade of

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groundbreaking advancements in the field. Through cutting-edge technology, distinctive design, and top-tier materials, Huawei's wearables portfolio has flourished, offering a wide array of devices tailored to individual needs. These devices seamlessly integrate into users' daily lives, providing comprehensive sports and health monitoring as well as active health management.

Over the past ten years, Huawei has been at the forefront of wearable technology. They introduced proprietary optical vital signs monitoring with HUAWEI TruSeen™ 1.0 in 2016, followed by the development of custom sensor solutions enabling dynamic heart rate monitoring in 2017. The year 2018 saw the achievement of 24-hour continuous heart rate monitoring with TruSeen™ 3.0.

In 2020, Huawei pushed boundaries further by incorporating a high-performance ECG sensor

into TruSeen™ 4.0, introducing electrocardiogram detection and continuous blood oxygen monitoring. The latest iteration, TruSeen™ 5.0+, promises even higher accuracy, with TruSeen™ 5.5+ set to debut later this year.

Through dedicated research and development, Huawei has crafted a range of innovative solutions encompassing sensors, algorithms, and features. Notable features like TruSleep™, TruRelax™, and TruSport™ offer heart rate tracking, blood oxygen monitoring, and stress analysis, providing comprehensive health management to users.

As a major patent contributor, HUAWEI Health has filed for over 800 patents and published 8 ESC research results under the 2020 ESC Guidelines on Atrial Fibrillation within the past 8 years. In 2022, the HUAWEI WATCH D introduced hybrid blood pressure measurement technology, a first in the industry, enabling precise blood pressure readings through micro pump pressurization. The Health Glance function on the HUAWEI WATCH 4 Series detects 7 physiological indicators, generating a comprehensive health report.

The HUAWEI Health App already offers personalized sports and health recommendations, covering various daily scenarios including sleep, diet, overall health, exercise, and emotions. Huawei continues to collaborate with partners to address significant health challenges such as sleep disorders, sports recovery, childhood development, and holistic digital healthcare

solutions. Through these collective efforts, Huawei has played a pivotal role in advancing the health management sector.

In a mere decade, Huawei has propelled global research in wearable technology. With 10 research institutes and 3 fitness and health laboratories across China, and plans to establish health laboratories in Europe, they're poised for further expansion. Shipments of Huawei smartwatches have exceeded 130 million units worldwide, and the HUAWEI Health App boasts over 450 million active users globally.

Collaborating with over 100 professional institutions worldwide and engaging over 13 million users has paved the way for Huawei's leadership in wearable health monitoring. The brand remains committed to exploring new frontiers, pushing the boundaries of health applications for smartwatches.

While smartwatches play a critical role in digital health monitoring, there's room for improvement, particularly in accuracy. Huawei is actively collaborating with expert institutions and partners to develop solutions and algorithms for more precise readings and outcomes. Their vision is to offer users an enhanced wearable health monitoring experience, leading the way in the continuous advancement of non-intrusive and intelligent wearable devices that benefit individuals, families, and the industry at large.