

Document title: Apple Watch Series 6 delivers breakthrough wellness and fitness capabilities - Apple

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PRESS RELEASE
September 15, 2020

Apple Watch Series 6 delivers breakthrough wellness and fitness capabilities

Facebook Twitter Email Link

Featuring a Blood Oxygen sensor and app, new case finishes, and watchOS 7



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Introducing Apple Watch Series 6, featuring a revolutionary Blood Oxygen sensor and app. ↓

Cupertino, California — Apple today announced [Apple Watch Series 6](#), introducing a revolutionary Blood Oxygen feature that offers users even more insight into their overall wellness. Apple Watch Series 6 delivers many notable hardware improvements, including a faster S6 System in Package (SiP) and next-generation always-on altimeter, along with its most colorful lineup yet, featuring a beautiful palette of new case finishes and bands. watchOS 7 brings Family Setup, sleep tracking, automatic handwashing detection, new workout types, and the ability to curate and share watch faces, encouraging customers to be more active, stay connected, and better manage their health in new ways.

“Apple Watch Series 6 completely redefines what a watch can do,” said Jeff Williams, Apple’s chief operating officer. “With powerful new features, including a Blood Oxygen sensor and app,¹ Apple Watch becomes even more indispensable by providing further insight into overall well-being.”



Apple Watch Series 6 offers its most colorful collection yet. ↓

Blood Oxygen Sensor and App

Apple Watch Series 6 offers its most colorful collection yet.

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Blood Oxygen Sensor and App

Apple Watch Series 6 expands the health capabilities of previous Apple Watch models with a new feature that conveniently measures the oxygen saturation of the user’s blood, so they can better understand their overall fitness and wellness. Oxygen saturation, or SpO2, represents the percentage of oxygen being carried by red blood cells from the lungs to the rest of the body, and indicates how well this oxygenated blood is being delivered throughout the body.

To compensate for natural variations in the skin and improve accuracy, the Blood Oxygen sensor employs four clusters of green, red, and infrared LEDs, along with the four photodiodes on the back crystal of Apple Watch, to measure light reflected back from blood. Apple Watch then uses an advanced custom algorithm built into the Blood Oxygen app, which is designed to measure blood oxygen between 70 percent and 100 percent. On-demand measurements can be taken while the user is still, and periodic background measurements occur when they are inactive, including during sleep. All data will be visible in the Health app, and the user will be able to track trends over time to see how their blood oxygen level changes.



The new Blood Oxygen sensor and app conveniently measure the oxygen saturation of blood so users can better understand their overall fitness and wellness.



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Apple is joining forces with researchers to conduct three health studies that include using Apple Watch to explore how blood oxygen levels can be used in future health applications. This year, Apple will collaborate with the University of California, Irvine, and Anthem to examine how longitudinal measurements of blood oxygen and other physiological signals can help manage and control asthma.

Separately, Apple will work closely with investigators at the Ted Rogers Centre for Heart Research and the Peter Munk Cardiac Centre at the University Health Network, one of the largest health research organizations in North America, to better understand how blood oxygen measurements and other Apple Watch metrics can help with management of heart failure. Finally, investigators with the Seattle Flu Study at the Brotman Baty Institute for Precision Medicine and faculty from the University of Washington School of Medicine will seek to learn how signals from apps on Apple Watch, such as Heart Rate and Blood Oxygen, could serve as early signs of respiratory conditions like influenza and COVID-19.



The Blood Oxygen sensor employs LEDs, along with photodiodes on the back crystal of Apple Watch Series 6.

Design and Performance

Apple Watch Series 6 improves performance through redesigned hardware that packs even more features and power into the same impressively small

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