



Bittium Expands Its Offering to Home Sleep Apnea Testing Solutions

Press Release

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Bittium Respiro™ is a modern sleep apnea testing device and analysis service solution intended to record polygraphy (PG) level data and analyze typical sleep-related breathing disorders

Oulu, Finland, March 25, 2021 – Bittium, a leading specialist for secure communications, connectivity, and medical technology solutions, expands its offering to Home Sleep Apnea Testing (HSAT) solutions. Bittium Respiro™ is a modern sleep apnea screening device and analysis service solution for service providers, hospitals, clinics, and health centers. It is focused on Home Sleep Apnea Testing (HSAT) and it is intended to record PG level data and analyze typical sleep-related breathing disorders. Bittium Respiro™ is compliant with Medical Devices Regulation (MDR) and will be available to the market in Q3/2021.

Sleep apnea is a serious medical condition, and if left untreated, it is associated with an array of adverse health consequences, including cardiovascular disease, metabolic disorders, diabetes, cognitive impairment, and depression. The most common type of sleep-disordered breathing is obstructive sleep apnea (OSA), and according to JCSM's studyⁱ, the treatment has been shown to reduce the risk of the chronic health consequences, improve quality of life and lower the rates of motor vehicle accidents. The diagnosis of sleep apnea, however, is often a challenge. So far, sleep laboratories have often been the only option for patients. Modern medical technology can help addressing the diagnostic challenge.

"Bittium has over 35 years of experience in measuring and monitoring biosignals in the areas of cardiology and neurophysiology. Expanding our expertise to new diagnostic solutions is a natural step forward. We have put considerable efforts to the development of our home sleep apnea testing solution, and as a result, we are proud to provide a first sneak-preview for Bittium Respiro™, which is an impressive combination of a measuring device, analysis software and service platform," says Arto Pietilä, Senior Vice President of Bittium Medical Technologies.

A New Level of Reliability, Safety, and Comfort for Home Sleep Apnea Testing

Bittium Respiro's functionalities are based on the latest technologies and widely accepted and investigated methods, such as American Academy of Sleep Medicine (AASM) guidelinesⁱ. Reliability, data security, and patient safety are top priority and in the core of Bittium's know-how. Small size, wireless connectivity and one button usage make the device easy and comfortable for the patients. Modern printed electronics have been utilized in the electrical connection between the sensors and the device. This is also a hygienic and safe solution for the patient.

Bittium Respiro Analyst™ software provides a web-based intuitive user interface which utilizes artificial intelligence to accelerate analysis work. The software pre-analyses the massive amount of measurement data and converts it to a more visual and informative format. This makes it easier and quicker for healthcare personnel to perform further analysis and diagnosis. Bittium MedicalSuite™ provides the same cloud backend system for all Bittium medical products and services and enables fast and location independent data analysis.

Bittium Respiro™ supports different business models and adapts flexibly to varying measurement needs. For example, it is suitable for clinics making quick analyses, where the cost of one measurement is an important factor. A more extensive measurement provides sleep specialists with more biosignals for demanding analyses. Bittium Respiro™ solution complies with AASM Type III guidelines and thus meets the criteria for reimbursement in most countriesⁱⁱⁱ.

For more information about Bittium Respiro™, please visit: <https://www.bittium.com/medical/bittium-respiro>

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Bittium

Bittium specializes in the development of reliable, secure communications and connectivity solutions, leveraging its 35 year legacy of expertise in advanced radio communication technologies. Bittium provides innovative products and services, customized solutions based on its product platforms and R&D services. In the field of healthcare technology, Bittium offers solutions for the measurement and monitoring of biosignals in the areas of cardiology, neurophysiology, rehabilitation, occupational health and sports medicine. Net sales in 2020 were EUR 78.4 million and operating profit was EUR 2.1 million. Bittium is listed on Nasdaq Helsinki. www.bittium.com

ⁱJournal of Clinical Sleep Medicine, <https://jcsm.aasm.org/doi/10.5664/jcsm.6506>, published Online: March 15, 2017

ⁱⁱCompliant with American Academy of Sleep Medicine (AASM) Guidelines

ⁱⁱⁱCountry-specific regulations need to be revised