

Polysomnography made simple, in-lab and at-home

The Nox SAS solution is a new way to record EEG, ECG, EOG, and EMG data. Relied on for accurate sleep testing everywhere where sleep happens.



Nox SAS™ PSG solution

The Nox SAS solution is a new, flexible way to record EEG, ECG, EOG, and EMG data during polysomnography sleep studies conducted with the Nox A1s recorder. From the desks of sleep scientists at research universities to the hands of physicians and technicians in sleep clinics, the Nox SAS is relied on for accurate sleep testing everywhere where sleep happens, with less hassle.

Each Nox SAS cable is only as long as it needs to be. This ensures that there are no tangled, bulky wires to worry about, only smooth and seamless data collection.

A Seamless Sleep Diagnostic Experience

Just as accurate as a traditional EEG head cable^{1,3}, but with less hassle, the Nox SAS hookup is simple. Signals typically derived from the scalp and chin are recorded from the forehead electrodes, so there is no need for scalp EEG electrodes or chin-EMGs. The typical troubles of attaching electrodes on the scalp or managing facial hair are never a problem.

Recent research has shown that the Nox SAS provides a high level of agreement for all sleep stages in adults and children when compared to the conventional montage, currently recommended by the American Academy of Sleep Medicine^{1,2}.

The solution also comes with wireless connectivity, so patients are never tethered to the bed. No need to unhook anything for bathroom trips or to get a sip of water.

The streamlined setup of Nox SAS is designed to be easy to apply and time-saving.

Additionally, an internal validation study of 204 traditional PSG head cable sleep recordings and 244 Nox SAS sleep recordings collected in a double hook-up configuration from adults in a standard clinical setting found good agreement between the two recording groups.

¹ Punjabi NM, Kaplan PW, Margolick J, Aurora RN. 0319 A Simplified Bipolar Frontal Montage for Recording and Staging Sleep. Sleep. 2018;41:A122-A122. doi:10.1093/sleep/zsy061.318

² Kainulainen S, Korkalainen H, Sigurðardóttir S, et al. Comparison of EEG Signal Characteristics Between Polysomnography and Self Applied Somnography Setup in a Pediatric Cohort. IEEE Access. 2021;9:110916-110926. doi:10.1109/ACCESS.2021.3099987

³ Rusanen M, Korkalainen H, Gretarsdóttir H, et al. Self-applied somnography: Technical feasibility of electroencephalography and electro-oculography signal characteristics in sleep staging of suspected sleep-disordered adults. J Sleep Res. 2023;32(5):e13977. doi:10.1111/jsr.13977



Scan for further information about the Nox SAS solution

For product information, kindly reach out to us at: info@noxmedical.com.

The availability of the Nox SAS solution may vary between markets. Please contact your local distributor for further information.





A Swift Hookup

Nox SAS is designed for easy application, minimizing training and supervision requirements to save time and streamline workflows

A flexible solution, the Nox SAS is used with the Nox A1s PSG recorder, and can be applied in the sleep lab or at the patient's home. The Nox SAS aims to make sleep diagnostics accessible no matter where they are needed.

It is even flexible enough to be self-applied by the patient, bringing polysomnography to the patient's home, and easing the potential burden on sleep clinic staff.

The Precision of the Sleep Lab – Everywhere

A research study of the Nox SAS found that successful and reliable recordings were collected from approximately 85% of the 900 participants on the first attempt, and 88.6% overall after two attempts. The study also demonstrated that the EEG and EOG signals could be acquired without significant duration of artifact⁴.

Then, when each study is complete at the end of the night, artificial intelligence-driven proprietary software developed by Nox Medical data scientists can synthesize the sleep study metrics to give clinicians an accurate picture of their patient's sleep health. The goal is to get the most precise diagnosis, on the first try.

⁴ Punjabi NM, Brown T, Aurora RN, et al. Methods for home-based self-applied polysomnography: the Multicenter AIDS Cohort Study. *Sleep Adv.* 2022;3(1):zpac011. doi:10.1093/sleepadvances/zpac011

The following are medical devices that are CE-marked and intended for clinical use under the supervision or direction of a qualified healthcare professional: Nox T3s system, Nox A1s system, NoxTural and Nox RIP belts. For more information on these devices, including their intended use, contraindications, and instructions for use, please consult the manufacturer's documentation at noxmedical.com/downloads.

All Artificial Intelligence analysis results should always be reviewed by a certificated technologist or a physician prior to diagnosis.

