Accurate. Affordable. Accessible.

A collaborative solution for home sleep apnea testing

Nonin Medical, a leader in noninvasive monitoring technology, has teamed up with **EnsoData™**, a pioneer in healthcare AI, to provide an innovative and affordable solution for home sleep tests (HSTs), which can be critical in the diagnosing of obstructive sleep apnea (OSA), an increasingly common condition.[1]

Nearly
1 billion
people are affected by OSA globally.[2]

425 million
are classified as moderate to severe cases—many undiagnosed.[3]

This solution integrates Nonin Medical's **WristOx$_2$® Model 3150** with EnsoData's **EnsoHST PPG™** AI-powered analytics to provide an accurate,[4] scalable, and cost-effective alternative to traditional sleep studies and associated challenges,[5] including:

- **High costs** of in-lab testing and equipment.
- **Limited access**, especially in underserved areas.
- **Long wait times** for appointments and results.

[1] American Academy of Sleep Medicine. Rising prevalence of sleep apnea in U.S. threatens public health. *American Academy of Sleep Medicine – Journal of Clinical Sleep Medicine*. Published 2018. https://aasm.org/rising-prevalence-of-sleep-apnea-in-u-s-threatens-public-health

[2] Benjafield AV, Ayas NT, Eastwood PR, et al. Estimation of the global prevalence and burden of obstructive sleep apnea: a literature-based analysis. The Lancet Respiratory Medicine. 2019;7(8):687-698. doi: https://doi.org/10.1016/s2213-2600(19)30198-5.

[3] American Academy of Sleep Medicine. Obstructive Sleep Apnea (OSA) National Indicator Report. Sleep Education – American Academy of Sleep Medicine. Published April 4, 2023. https://sleepeducation.org/get-involved/count-on-sleep/public-health/national-indicator-report/

[4] Nonin Medical, Inc. Data on file. EnsoData 510K clearance: K210034 and K162627

[5] Celmer L. Undiagnosed and untreated sleep disorders: Barriers to care. American Academy of Sleep Medicine – Association for Sleep Clinicians and Researchers. Published December 18, 2023. https://aasm.org/undiagnosed-and-untreated-sleep-disorders-barriers-to-care

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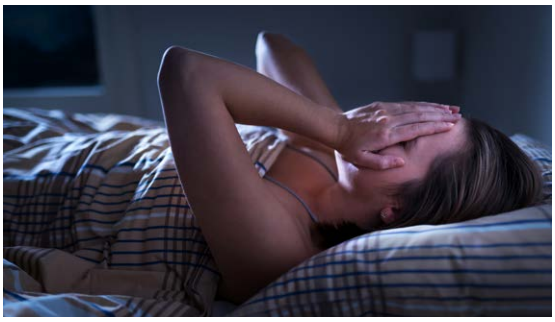
Advancing Sleep Lab Diagnostics with HST solutions

Testing made simple with Nonin Medical and EnsoData



Left untreated, OSA can lead to numerous health issues,[4] putting individuals at higher risk for:

- Cardiovascular disease
- Stroke
- Metabolic disease
- Daytime sleepiness
- Workplace errors
- Traffic accidents
- Death

Accurate blood oxygen saturation (SpO_2) measurements are essential for effectively diagnosing sleep disorders.[5] Nonin's **WristOx$_2$® Model 3150** pairs with EnsoData's **EnsoHST** to provide an advanced solution for diagnosing OSA in home environments.

WristOx$_2$

Wearable pulse oximeter that provides accurate SpO_2 measurements during sleep.[2]

- Comfortable, wrist-worn design for continuous monitoring.
- Ensures accurate readings, even during movement.[2]

EnsoHST

AI platform that analyzes WristOx$_2$ data for actionable insights.[6]

- Automated analysis for fast, accurate OSA diagnosis.
- Enhances clinical decision-making.

Key benefits:

- Accessible home sleep testing with no lab visits
- Scalable for sleep labs of all sizes
- Fast, accurate OSA diagnosis[6]
- Reduced wait times and costs, improving patient convenience[6]
- Up to seven nights of testing at no additional cost
- Designed for multi-night testing[7] and longitudinal monitoring

Elevate your sleep lab diagnostics with our HST solution, combining accuracy and convenience for better patient care.

Get Started: nonin.com/products/3150-ble | ensodata.com/ensohst

[4] Knauert M, Naik S, Gillespie MB, Kryger M. Clinical consequences and economic costs of untreated obstructive sleep apnea syndrome. World Journal of Otorhinolaryngology-Head and Neck Surgery. 2015;1(1):17-27. doi:https://doi.org/10.1016/j.wjorl.2015.08.001

[5] Hirshkowitz M, Kryger MH. Monitoring Techniques for Evaluating Suspected Sleep-Related Breathing Disorders. Elsevier eBooks. Published online January 1, 2017:1598-1609.e3. doi: https://doi.org/10.1016/b978-0-323-24288-2.00164-1

[6] EnsoData 510K clearance: K210034 and K162627

[7] Nygate Y, Wodnicki J, Rusk S, Fernandez C, Hwang D, Watson NF. Evaluating the impact of multi-night home sleep apnea testing for OSA diagnosis. *EnsoData Research*. Published June 10, 2025. https://www.ensodata.com/research/multi-night-home-sleep-apnea-testing-for-osa-diagnosis/

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