



Validated and efficient scoring solution

Somnolyzer 24x7

PHILIPS

RESPIRONICS

sense and simplicity

Enhance your sleep study scoring

Somnolyzer 24x7 is a clinically-validated, computer-assisted sleep scoring system designed to help simplify and improve sleep study scoring productivity, accuracy, and consistency. By reducing the time sleep technicians spend on studies – typically to less than one-half of normal time – they can be free to deal with other important lab activities.

Many labs today face an increased demand for sleep diagnostic testing and a possible scarcity of sleep specialists. Implementing an automated scoring solution, like Somnolyzer 24x7, can help deal with these challenges. Automated scoring can help you enhance your lab efficiency, forecasting, and demand. Designed by sleep experts who understand your needs, Somnolyzer 24x7 offers many benefits for lab managers and technicians. It also can help enhance the relationship between labs and referring physicians and their patients who want quick study results.



Provides a smart solution to the challenges of scoring sleep studies

Somnolyzer 24x7 has been proven to most closely approximate human scoring and was tested on the largest normative database, as well as on thousands of patient studies.¹

Some technicians may find they only need as little as 10-20 minutes for structured quality expert review. This increased efficiency may enable them to focus their expertise on the areas requiring refinement instead of routine, monotonous scoring.

Somnolyzer 24x7 is a reliable and validated, computer-assisted sleep scoring system that:

- Includes an expert review process
- Applies the same scoring rules as any human expert
- Follows R&K and current AASM standards
- Detects all relevant visual features (i.e., spindles, eye movements, delta waves) just as in manual scoring

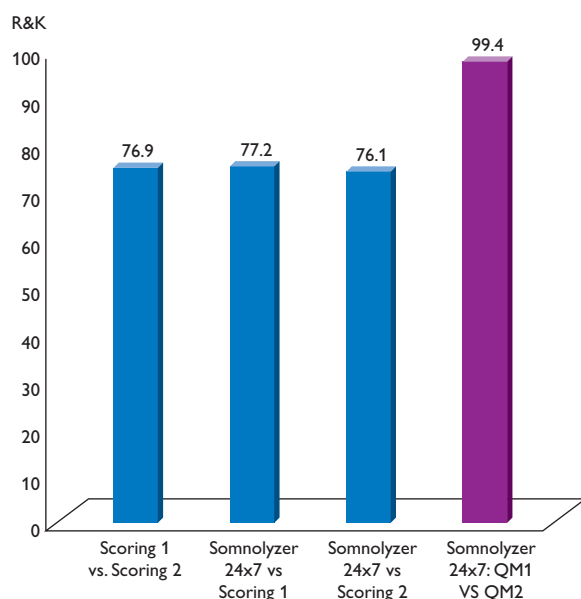
- Enables you to view reports in your native system without having to change them (dependent upon the sleep system you use)
- Ensures that your scored results are of consistent quality by diminishing interscorer variability

Somnolyzer 24x7 provides automated analysis of:

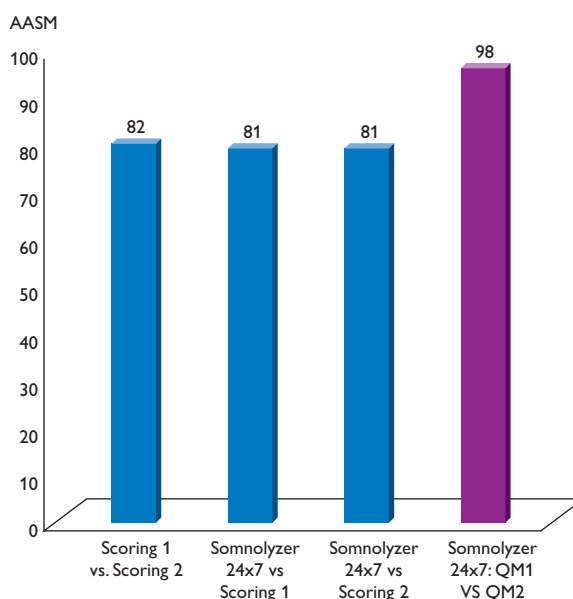
- Sleep staging
- Arousal analysis
- Respiratory analysis
- Leg movement analysis

Somnolyzer 24x7 is designed to help your scoring studies be more efficient, consistent, and maintain a high level of inter-scorer agreement. With Somnolyzer 24x7 in place, your staff should be able to provide referral sources and patients with quicker results and handle any possible demands for increased patient throughput.

Overall performance (staging)



■ Validity: indistinguishable from human scorer.²



■ Reliability: same results every time, fully comparable.³

Note: the above graphs are adapted from the studies referenced in the footnotes.

Works with other PSG systems

Even if your diagnostic system is not fully supported for reintegration of Somnolyzer 24x7 results, our comprehensive sleep report – the “Spot Report” – contains all major variables (from AHI to Total Sleep Time).

All variables are compared to the world’s largest normative database on healthy sleep. Depending on the age and gender of the subjects a sleep profile of the most important parameters are compared to the norm. Significant deviations are clearly indicated and marked, and the report is generated in PDF format.

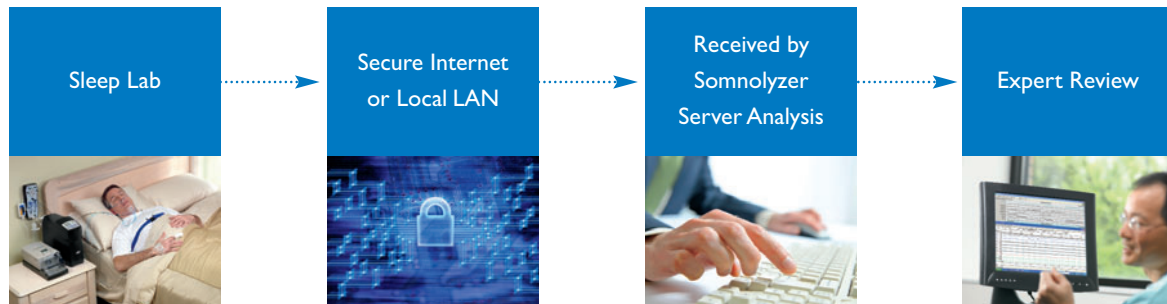
Integrated work flow

Somnolyzer 24x7 can directly interface with Alice Sleepware so that the user does not have to change work flow. Somnolyzer 24x7 results also can be reintegrated into a number of other leading diagnostic systems.

Home testing capability

Somnolyzer 24x7 can provide scoring on ambulatory or home testing studies for:

- Full portable PSG (Level 2; ambulatory PSG)
- Cardio-respiratory testing (Level 3)
- One- or two-channel devices (Level 4)



Part number	Description
1076888	SOMLZ PSG Analysis (volume-based pricing)
1076892	SOMLZ Onsite Server Install/Training
1076893	SOMLZ PR Hosted Server Install/Remote Training
1076890	SOMLZ Expert Review Service PSG
1076891	SOMLZ Non-Contract Full Service

For home sleep testing (ask your sales representative regarding availability)	
Part number	Description
1076889	SOMLZ HST Analysis (volume-based pricing)
1078155	SOMLZ Expert Review Service HST

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¹ Penzel T, Hirshkowitz M, Harsh J, et al. Digital analysis and technical specifications. *Journal of Clinical Sleep Medicine* 2007;3(2):109-120.

² An E-Health Solution for Automatic Sleep Classification According to Rechtschaffen and Kales: Validation Study of the Somnolyzer 24x7 Utilizing the Siesta Database; *Neuropsychobiology* 2005;51:115-133.

³ Computer-assisted Sleep Classification According to the Standard of the American Academy of Sleep Medicine: Validation Study of the AASM Version of the Somnolyzer 24x7; *Neuropsychobiology* 2010;62:250-264

⁴ Svetnik V, Ma J, Soper K et al. Evaluation of automatic and semi-automatic scoring of polysomnographic recordings from a clinical trial using Zolpidem in the treatment of insomnia, *Sleep*,30(11):1562-74.

⁵ Dingemans J, Dorffner G, Hajak G, et al. Proof-of-concept study in primary insomnia patients with almorexant (ACT-078573), a dual orexin receptor antagonist, *Sleep and Biological Rhythms, Worldsleep07 supplement*, 2007.

⁶ Mayleben D, Safirstein B, Rajachandran L, et al. Aplindore, a partial dopamine agonist, reduces periodic limb movements in patients with restless legs syndrome. *Sleep* 2009; 32, abstract supplement, A304.

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