

Diagnostic Equipment Guide

Diagnostic equipment will soon have to meet new AASM specifications. In order to get a glimpse of which manufacturers currently meet, and will be meeting, the new specifications, *Sleep Review* has compiled a list of often-mentioned and advertised diagnostic equipment manufacturers. Contact information and selected features have also been highlighted for easy reference.

Diagnostic PSG Product	Manufacturer	Web Site	Selected Features	Currently Meets AASM Specs*	Will be meeting AASM Specs**
AirEEG wireless EEG/PSG system	Nihon Kohden	www.nkusa.com	Up to 64 channels of wireless EEG or PSG. Optional digital video module allows recording and display video. Up to 24 hours of battery operation. Up to 900-foot range without signal loss.	Yes	N/A
AURA [®] PSG Wireless/ Ambulatory System	Grass Technologies	www.grasstechnologies.com	Wireless, in-lab applications. Ambulatory out-of-lab applications. 25 channels. Built-in pulse oximeter. electrode/sensor connections, pulse transit time (PTT). Compact, lightweight design.	No	Yes
Cadwell Easy [®] Ambulatory 2 Sleep Diagnostic System	Cadwell Laboratories	www.cadwell.com	Full EEG data collection. Includes a recorder with pouch, amplifier with pouch, C or D cell battery pack, and accessories. Flash memory cards to store EEG data. 3,200 Hz sampling rate.	No	Yes
Embla S4000 polysomnography system	Embla	www.embla.com	Color-coded input panel with patient layout. Dual component system minimizes cabling. Records up to 24+ channels. Records 8 additional isolated DC channels. Integrated steel luer lock pressure transducer. Built-in impedance button with indicator lights.	No	Yes
Harmonie-S Sleep Diagnostic System	Stellate	www.stellate.com	Suitable for adult, pediatric, and neonatal applications. Quick-start, online sleep staging. Online and off-line event editing. 20-bit, 44-channel amplifier.	No	Yes
Inspirex [™] Sleep System	XLTEK	www.xltek.com	Workflow-based system. Available in a variety of fixed and portable configurations. Available with the 50-channel amplifier.	No	Yes
MediPalm [®] 22-Channel PSG Amplifier with Pursuit Sleep [™] Software	Braebon Medical	www.braebon.com	Attended capability. Internal headbox, pulse oximeter, pressure transducer, calibration, impedance meter. Software has custom displays, trend window, manual and assisted scoring, user tags and markers, continuous video.	Yes	N/A
Sandman [®] Elite sleep diagnostic system	Nellcor Puritan Bennett	www.sandmansleep.com	16-64 channels. Modular design. Features computer-assisted PLM, respiratory, arousal, snore, heart rate, ETCO ₂ , bad data, desaturation, ECG, and pH event detection.	Yes	N/A
Sapphire PSG [™]	CleveMed	www.clevemed.com	22 channels. With the intranet-based iPSG [™] upgrade, system can be used to test patients in the hospital inpatient room, nursing home, or sleep hotel. With PSG@Home [™] , technologist can remotely monitor patients from almost any location.	Yes ¹	Yes ¹
Sleepscan [®] Vision	Bio-logic Systems Corp	www.bio-logic.com	Amplifiers allow the user to start or stop the study or perform electrode impedance testing at the bedside or from the monitoring room. Auto analysis, AHI calculation during collection. Pediatric and adult programs.	Yes	N/A
Somté PSG with ProFusion PSG software	Compumedics	www.compumedics.com	Bluetooth wireless technology. Full in-lab capabilities as well as ambulatory. Bedside station allows up to 8 external DC inputs for other channel capabilities such as pH or capnography.	Yes	N/A

*Meets technical and digital specifications listed in Section III of the new AASM scoring manual.

**Company is in the process of developing product to meet AASM Section III specifications or has some other product that will meet specifications by July 2008 deadline.

1. Hardware is currently compliant, but customers must request free update for current PSG software.

N/A = Not Applicable