PHILIPS

RESPIRONICS

Sleep diagnostics

Product and solutions guide

We're with you night and day

Covering your sleep lab diagnostic needs





Introduction

Philips Respironics is a market leader of sleep products, offering exceptional service, expert support and innovative devices for more than 30 years. We are committed to helping sleep centers improve their operational efficiencies and patient care.

Dependable support

Our clinical specialists understand, and are focused on the needs of sleep professionals. Our technical and product support representatives answer customer calls **24/7**, **365** days a year. You'll find that your questions get answered and your problems get solved.

Comprehensive product line

We cover your diagnostic needs, in and out of the lab with:

- Alice in-lab PSG and home diagnostic systems for routine to advanced sleep solutions
- A powerful and unified **Sleepware G3** software platform for PSG and HST
- Somnolyzer clinically validated, computer- assisted scoring system
- A full-line of **Pro-Tech** quality sensors, including zRIP effort sensors

Peace of mind

We keep things easy and uncomplicated and offer benefits designed to help you enhance your business and improve operational efficiencies.

- Enjoy advantages such as:
- One, unified software platform for PSG and HST testing
- Open-site software licenses
- All software updates included
- 24/7 365 product and technical support

As a supplier of sleep diagnostic and therapy solutions, we are committed to you and your patients night and day.

For more information on any of our products and services, please visit www.philips.com/sleepdiagnostics or email sleep.diagnostics@philips.com

Philips Respironics Alice PSG systems are the most utilized PSG systems in the U.S.*

In-lab diagnostic systems

Philips Respironics Alice 6 PSG systems allow your staff to perform routine or full-featured studies while focusing more on patients and less on equipment. All Alice 6 PSG and HST systems are powered by **Sleepware G3** so your staff can efficiently gather and analyze the data you need, without needing to switch between multiple software programs.



Alice 6 LDx with the LDxS or LDxN headbox

The Alice 6 LDxS is the perfect front-line PSG system for most sleep center needs. Place the Alice 6 LDxN into use when you need to step up to a full 32 EEG inputs. Either headbox works with the LDx base station.

- LDxS headbox (19 EEG inputs)
- LDxN headbox (32 EEG inputs)
- Integrated RIP driver
- Dedicated differential pressure transducer
- Patented automatic chin EMG re-referencing
- 7 ECG channels
- Up to 500Hz recording, with 2,000Hz sampling
- Continuous impedance values available during and post-acquisition
- Digital connection to OmniLab Advanced + titration device and ETCO2 LoFlo device, eliminating the need for external calibration

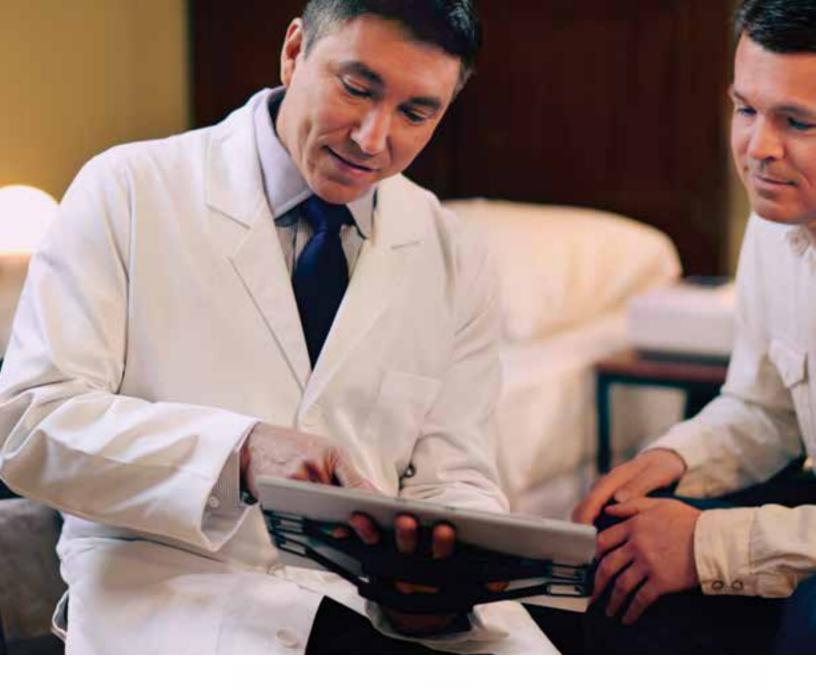




Alice 6 LDE

The LDE provides busy labs with the essential features for performing routine PSGs. The headbox perfectly balances a compact form factor with easy-to-identify and easy-to-use inputs.

- Up to 500Hz recording
- Integrated RIP driver
- Dedicated differential pressure transducer
- Automatic chin EMG re-referencing
- One-year warranty





Alice 6 PSG family

Get peace of mind with our **PSG systems**

We have your long term financial needs in mind. We know that overall cost of ownership matters to you most, so our Alice PSG bundles take that into consideration by helping you control longterm costs and reduce unplanned expenses. Our goal is to provide you the best technology and value in the industry.

Incuded with Alice 6 purchase

- Unlimited software updates
- Unlimited site licensing
- 24/7/365 product and technical support
- Custom installations and on-site training
- zRIP DuraBelt Starter sensor kits
- Loaner systems (while under warranty) included with most packages
- Two-year product warranty on Alice LDx systems (One year with Alice LDE)
- $\cdot\,$ Four hours of custom report writing per site

OmniLab Advanced +

Multi-mode titration system

Six modes with multiple technologies – including our BiPAP autoSV and BiPAP AVAPS – are accessible directly from your PC.

OmniLab Advanced + has the highest usage of lab titration devices in U.S. sleep labs.* *2016 Philips sponsored market study



Looking to replace your old, unreliable PSG system? Comprehensive upgrade bundles are available. Contact your local Sales associate or email **sleep.diagnostics@philips.com** for a **comparative quote or demo**.

We make it easy to try home sleep testing with our **45-day trial program**. Contact your local sales associate for details.

STATA DAV

At-home diagnostic systems

From fundamental to comprehensive home testing, you'll find it with our in-home diagnostic solutions. From basic to advanced sleep analysis, you can offer your patients the benefit and comfort of home sleep testing while collecting all the diagnostic data you need.

Alice PDx for comprehensive studies

The Alice PDx offers basic screening to advanced diagnostic evaluation. With innovative and comprehensive features, Alice PDx gives you the HST flexibility that a growing sleep center needs.

- Satisfies requirements for Types II, III and IV testing
- Innovative Good Study Indicator helps avoid the inconvenience of sending the device back out for retesting and can help keep lab costs down
- Patient-friendly, easy-to-follow sensor indicators and step-by-step diagram
- Up to 21 total channels with optional yokes
- Optional ECG and ExG yokes for when Type II testing is needed
- Two-night to three-night battery life
- SD card memory
- Two-year warranty

More sleep labs in the U.S. use Philips Respironics' home sleep testing devices than any other home testing manufacturer.*





Alice NightOne

The Alice NightOne home sleep testing solution combines ease, comfort and reliability to support your business, clinical and patient needs. With features and functions designed with patients in mind.

- "Auto-on" feature
- RIP with integrated buckle design
- Unique "smart guide" patient setup sequence
- Enhanced Good Study Indicator
- Body Position sensor built-in
- Optional Cloud services
- Bluetooth connectivity to System One or DreamStation therapy devices to record therapy channels
- Study starts recording as soon as device belt is buckled
- Two-year warranty

* 2016 Philips sponsored market study, 91 respondents, combined results Alice NightOne, Alice PDx, Stardust II.

Unified software

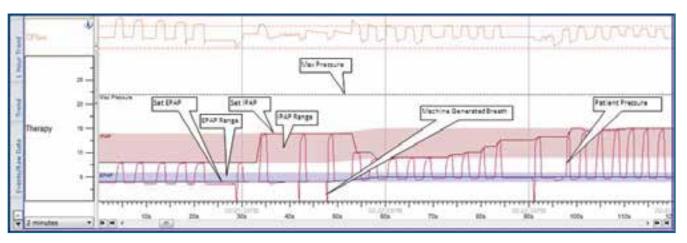
Sleepware G3 with Somnolyzer is one software interface with multiple workflow benefits. Sleepware G3 is flexible and highly adaptable and its intuitive interface and user-friendly functions are designed to help enhance your workflow and customization preferences. Sleepware G3 allows you to have one, unified software platform for your PSG and HST needs, helping to improve your operational efficiencies.

Sleepware G3 features

- Supports all Alice 6 PSG and HST devices
- Integrated with clinically validated Somnolyzer* assisted scoring
- Multi-part queries with interfacing database
- Meets AASM requirements for a sleep lab database
- Define unique workspaces to suit individual and workflow requirements during acquisition, scoring and physician reviews
- Unique composite channels for BiPAP autoSV and AVAPS display and support
- Supports HL7, Citrix and Cloud services
- Portable Device Manager helps you manage your portable device fleet

Sleepware Bedside Assistant From anywhere in the sleep lab with wireless connectivity:

- Displays live waveforms at bedside
- Helps with workflow efficiencies when performing impedance checks, bio-cals, or checking patient status in a room
- Displays live video for each patient room
- Controls OmniLab Advanced + titration
 device for each room
- Mark Lights/On and Lights/Off



Composite channel for BiPAP autoSV

*Somnolyzer is a fully integrated computer assisted sleep scoring system within Sleepware G3 and is an available option with a per-use license activation.

Reminder: For added value, unlimited software updates for supported platforms and site licensing are included with all PSG and HST devices



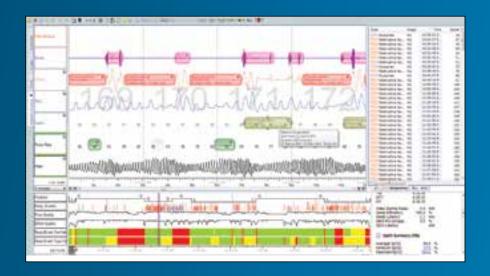
Somnolyzer scoring solution

Somnolyzer from Philips Respironics 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 they are free to work on other important lab activities. Validated for both PSG and HST studies.



Somnolyzer scoring solution

- Somnolyzer increases lab efficiency by reducing the time spent on manual scoring
- $\cdot\,$ Somnolyzer can analyze both PSG and HST recordings
- Integration with Sleepware enables real-time scoring During an in-lab PSG study, Somnolyzer will provide real-time, high quality staging and event scoring. As Somnolyzer applies staging and scoring, the night tech can easily track an ongoing tally of sleep efficiency and sleep time as well as event summaries such as RDI, AHI, and leg movements.
- Simple to interpret confidence trend or "traffic light" system Sleepware with Somnolyzer uses straightforward green, yellow, and red indicators to show where it has high, medium or low confidence in its' scoring, allowing the expert reviewer to focus their expertise on where it is needed the most.
- Same scoring rules as human expert to allow for validity
 Somnolyzer recognizes sleep characteristics spindles, eye movements and delta waves and applies the same decision process to staging and event scoring as a human expert would.
 The Somnolyzer's scores are indistinguishable from those of a human scorer.
- Diminishes interscorer variability for increased reliability Somnolyzer scoring, along with a structured expert review, diminishes inter-scorer variability.
- Follows R&K or AASM standards to deliver excellent results Patient results are compliant with the latest professional guidelines.
- Follows current AASM standards, receiving the highest evidence score in the paper 'Digital Analysis and Technical Specifications' (Penzel et.al, 2007)



Somnolyzer sample screen capture

Somnolyzer user trials for Sleepware G3 customers are available. Contact your local Sales associate or email **sleep.diagnostics@philips.com** for details.

Pro-Tech quality sensors

Make sure you're getting high-quality performance sensors from a market leader. Our innovative **Pro-Tech** sensors detect a variety of sleep parameters and meet important accreditation standards.

Respiratory effort sensors

Our affordable zRIP technology provides true breathing movement tracings with no false paradoxing, and signals for the detection of respiratory effort.

- zRIP DuraBelt inductive respiratory effort sensors
- ezRIP combination module/wireset sensor
- Piezo respiratory effort sensors

Pressure transducers

Our PTAF2 is a pressure-based transducerdesigned to generate accurate respiratory signals.PTAF2 airflow pressure transducer

Airflow sensors

Pro-Flow and Pro-Flow Plus cannulas are designed to provide optimal performance and patient comfort.

 Cannulas – Pro-Flow, Pro-Flow Plus, and MultiPurpose are all high performance cannulas that meet a variety of patients' needs

Thermal airflow

Our comfortable and easy-to-place thermocouples and thermistors are compatible with most major PSG systems.

• Thermal airflow sensors are available in disposable and reusable versions

LoFlo EtCO,

Our LoFlo plug and play device offers a streamlined approach to canography by using a single USB connection to Alice 6. The connection is digital, so no DC calibration is necessary. This device small, whisper quiet, convenient and easyto-use device allows for simultaneous monitoring of flow and CO₂.

- No calibration required
- Uses an innovative sample cell and filter



Visit our Sensor Product Selector Guide at **www.philips.com/sleepdx** to help you select the compatible sensor for your PSG system or email **sleep.diagnostics@philips.com** to place an order.



Actigraphy

Actigraphy Motion Biosensor complement technology provides precise measurement to help assess the sleep/wake patterns of a variety of patients with various sleep complaints. Motion Biosensors can serve as a or adjunct to a polysomnogram or subjective paper diary. Our devices help you gain insight into real-world sleep/wake and daytime activity. Data collected by Motion Biosensor devices have a variety of applications in sleep medicine and sleep disorder, circadian rhythm disorder, and daytime activity research.



Actiwatch Spectrum Plus

- Sleep/wake patterns
- Real time subjective scoring
- Multiple light measurements
- Event markers
- Off-wrist detection



Actiwatch 2

- Sleep/wake patterns
- Light sensor measurement
- Event markers
- Well-suited for use with younger subjects or hose sensitive to wrist-worn devices

AASM Recommendations

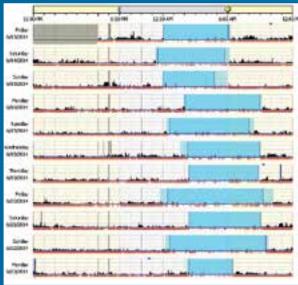
- Use of Actigraphy in evaluation of sleep disorders
- Use of Actigraphy in assessing the response to therapy of Sleep Disorder
- Use of Actigraphy prior to MSLT in treatment of Narcolepsy
- The MSLT should be preceded by at least one week of actigraphic recording with a sleep log to establish whether the results could be biased by insufficient sleep, shift work or another circadian sleep disorder.

For more information on actigraphy solutions, including videos and tutorials, please visit: **www.actigraphy.com.** Analyzing an irregular sleep schedule vs. a normal sleeper with Actiwatch The patient data on the left demonstrates rhythmicity in a sleep pattern during irregular sleep periods.

Look for rest interval start and end times.



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Control subject (78 yr. F)

Insomnia patient (68 yr. F)



A revolution in comfort and ease for treating **sleep apnea**

Whether you are a full service, or free standing sleep center, Philips Respironics has more to offer you than just Sleep diagnostic products and solutions.

DreamStation

Natural. Comfortable. Sleep.

With easy-to-navigate menus, a sleek, compact design and quiet operation, DreamStation makes it simple to start, customize and continue a patient's obstructive sleep apnea (OSA) therapy.

- Colorful, easy-to-use display with icon-based navigation and daily patient feedback.
- Most comprehensive suite of connectivity options available among the leading CPAP brands.¹

¹Internal assessment of 2015 competitive CPAP data comparing to ResMed Airsense10/ Aircurve10 platform and Fisher & Paykel Icon series platform.

DreamWear

Like wearing nothing at all.

The open-face design provides superb comfort, allowing freedom of movement and the ability to choose your most comfortable sleep position. DreamWear is designed to be unlike any mask you've experienced.

- Users rate DreamWear more comfortable, more stable, easier to use and more appealing than their prescribed mask.²
- Unique in-frame air-flow and an innovative air tube connection at the top of the head.
- Light, soft and flexible material.

²2015 User Preference Questionnaire, data on file.

DreamMapper

Take charge of your sleep.

As a mobile app and online software, DreamMapper helps keep you motivated to take charge of treating your sleep apnea.

- See daily feedback on your progress.
- Set and track custom goals, and unlock achievements.
- Find guidance and informational videos to help you stay committed.
- Receive notifications about your therapy and DreamMapper compatible* equipment.

*To see which CPAP and BiPAP devices are compatible with DreamMapper, visit sleepapnea.com/mydreammapper.



See why Philips Respironics is the most prescribed PAP system by U.S. sleep physicians.** Visit: **www.usa.philips.com/healthcare/solutions/sleep.**



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