

# SomniPro® ((PSG))

PSG / EEG / LTM | SYSTEM



Multi-Use WIRELESS  
**PSG/EEG SYSTEM**

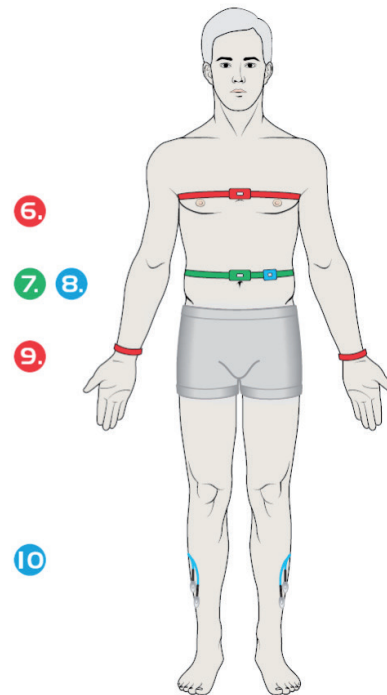
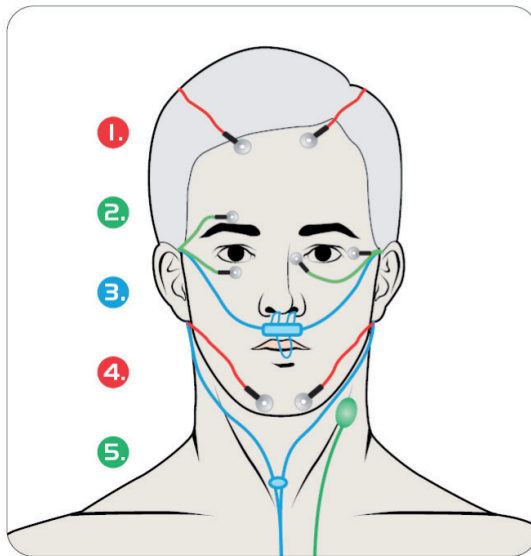
**Deymed**  
DIAGNOSTIC



## What is PSG?

Polysomnography (PSG) is multi-parametric test used in the study of sleep and as a diagnostic tool in sleep medicine. The test result is called a polysomnogram, also abbreviated PSG.

Video-EEG polysomnography is a technique combining polysomnography and video-recording, which has been described to be even more effective than only polysomnography for the evaluation of some sleep disorders, because it allows to more easily correlate EEG signals, polysomnography and patient's behavior.



1. EEG electrodes
2. EOG electrodes
3. Airflow
4. Chin
5. Snore
6. Thorax
7. Abdomen
8. Body
9. ECG
10. LEG

Headbox





## Advantages of SomniPro PSG

Deymed manufactures reliable and high-quality neurodiagnostic and neurocare systems. Our goal is to advance the Neurology and Neurophysiology fields to new heights with engineering innovation. All Deymed Neurocare systems are designed for ease-of-use and durability with advanced features that simplify your work.



### Battery Operated

Offering the highest signal quality possible and lasting months on a single charge, Deymed systems significantly reduce artifacts and outside noise by running 100% on batteries.



### Wireless Use

In wireless mode the amplifier can record for up to 20 hours on a single charge. Wireless range of 100 meters from the base system for maximum patient comfort and freedom to move.



### Intelligent Charging

Deymed's new ultra-low capacitance induction charging keeps the batteries full when the headbox is connected to system. This ensures the highest quality signal is possible with full battery operation during sensitive neurophysiology tests.



### Optical Isolation

Optical isolation greatly improves signal quality and patient safety. This feature combined with long-lasting battery operation, offers the best-in-class technology for neurophysiological recordings.



### High Sample Rates

Designed with Digital Signal Processor technology, Deymed systems can sample at very high sample rates while changing any parameter on the fly digitally. DSP offers numerous advantages over standard analog processing.



### Always on Impedance

Always-on impedance monitoring displays impedances during recording and has alerts to ensure electrodes are in-range at all times. The values are saved to the EEG file for post quality-assurance review.



## HD Network Camera with PTZ

Full HD network video camera that already compresses the video in the camera, so no internal capture card is required, which minimizes the hardware requirements on the PC. Video can be streamed via a UDP viewer station for up to four EEG/Video stations on a single screen.

## Advanced HD Video HUB

The HD Video Hub greatly simplifies a typically complex dual-video and audio capture, as well as integrating an microphone and ambient light sensor. combines and synchronizes video from up to two HD or SD camera sources.

## SomniPro Explorer Keyboard

A unique innovation in the PSG/EEG field, the SomniPro Explorer Keyboard was developed to speed up and streamline the review of PSG recordings with video. Ergonomically-designed buttons include all common features available on one click, minimizing the need for complex use of the mouse.

## Isolation Power Supply

Medical grade built-in Isolation Transformer that meets the highest medical safety standards. On/off switch with LED indicators for status. Non-patient Grounding plug included on side.

## IR Night Lamp

High-power IR lamp that can light up the entire room with in-direct positioning, ie by pointing the lamp at the ceiling and letting the light bounce off the walls, so the light source is not visible to the patient.

## LED Photo-stim Lamp

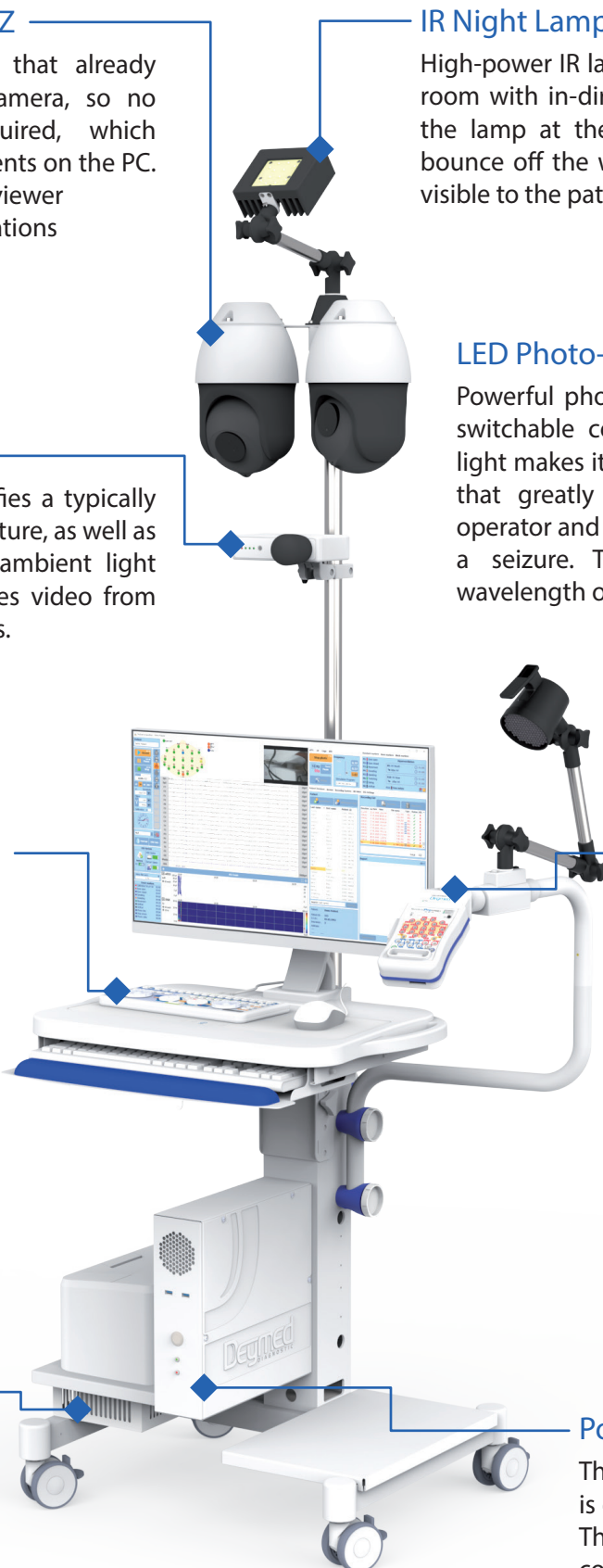
Powerful photic stimulation lamp with two switchable colors, red and white. The red light makes it possible to use special glasses that greatly eliminates the flash for the operator and gives more options for evoking a seizure. The red light has a mean wavelength of 660nm and white with a color temperature of 6500K.

## Intelligent Charger

Intelligent Headbox Charger. The Intelligent charging is built into the rotating metal arm with the holder for the headbox. It charges the headbox batteries via inductive charging, ie without direct contact, which maintains the optical isolation and safety benefits of battery operation as well as allowing the headbox batteries to be charged when the headbox is connected to system.

## Powerful and Silent PC

The Deymed integrated computer is optimized for use in healthcare. Thanks to the absence of a cooling fan, the system runs virtually silent, allowing the exam room to be undisturbed.





## FlexiCart PSG Video

FlexiCart with integrated computer and one PSG headbox connected via USB adapter along with dual video monitoring and infra-red lamp.



## FlexiTrolley and PSG

Computer and FlexiTrolley with one PSG headbox connected via USB adapter and camera wall mount kit for dual camera.

## Portable

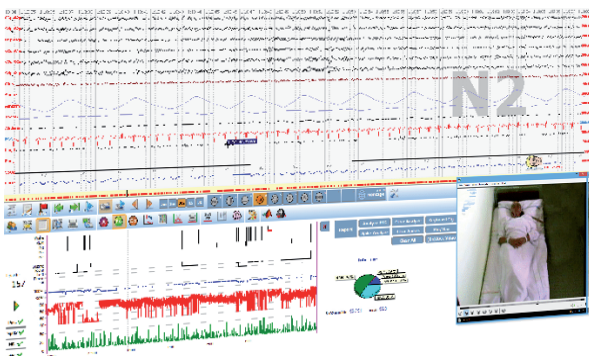
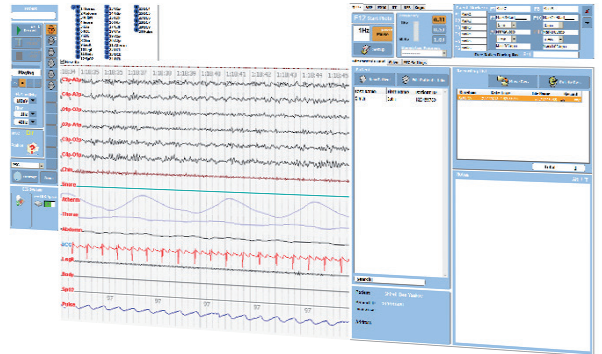
Includes laptop with 24ch, 32ch or 2x32ch EEG headboxes connected to the USB adapter.





## SomniPro Acquisition

- Configure and Acquire any PSG or PSG/EEG configuration
- View all channels plus body position and SpO2 values
- Montage editor built-in
- Quick pre-sets for easy use
- Video view with PTZ camera control

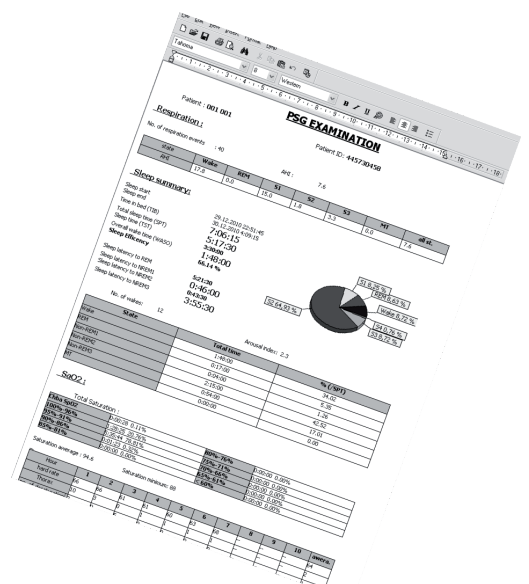


## SomniPro Explorer

- Full PSG/EEG review features
- Sleep Stage Scoring according to AASM Rules
- Various report templates (customizable)
- Works with Quick-Score PSG keyboard
- Montage Editor
- Data Export to EDF+ and other formats

## Customizable Report Generator

Create full clinical PSG reports with customization of any recorded parameters including calculations for AHI and RDI.



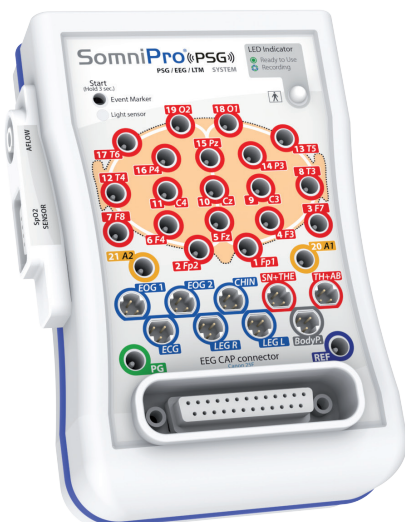


## SomniPro RS / LT Wireless

- 24 Ref EEG
- 8 Differential ExG (for flow & snore, breathing effort - RIP, EMG, ECG etc.)
- Pressure
- 3D sensor (position/activity)
- SpO2 (pulse rate, plethysmogram)
- Ambient light
- Patient marker

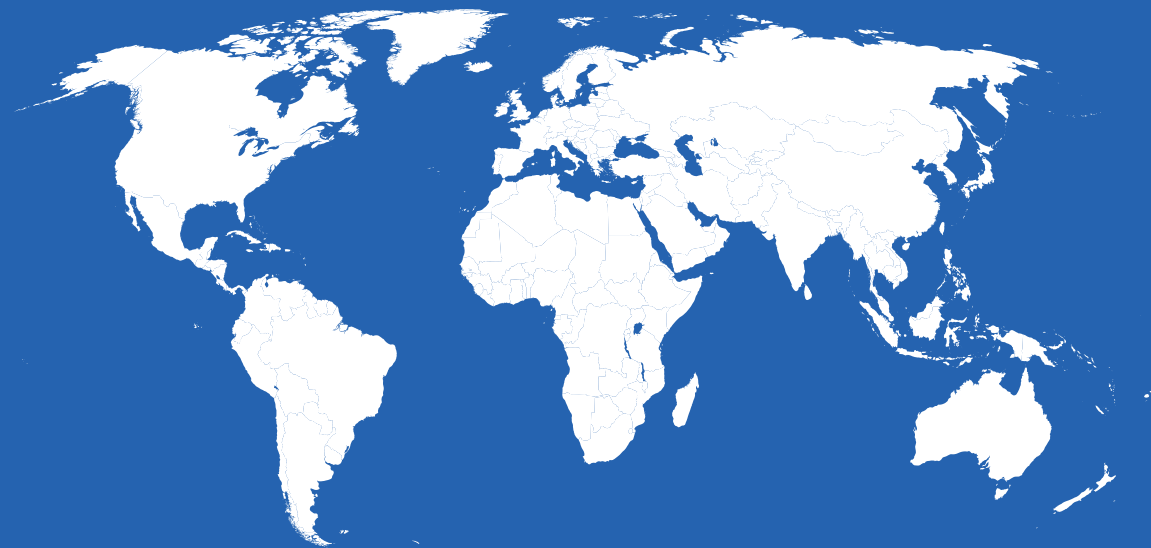
### SomniPro RS Wireless

SomniPro RS is designed more for portable use. Thanks to the channels located on the side of the headbox, the electrodes can be comfortably connected when the headbox is placed on or beside a patient's body.



### SomniPro LT Wireless

SomniPro LT is designed for cart use when the headbox is connected to a cart - thanks to the channels located on the top of the headbox.



# DEYMED

DIAGNOSTIC



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EMG



Magnetic stimulators  
TMS



Somnography  
PSG



Epileptology  
EEG



Neurofeedback  
BFB / qEEG