

# Sapphire PSG™

Wireless PSG System

PSG Anywhere™



**Wireless:**  
greatly reduce time and  
**lab setup costs**

**highly portable**  
so you can expand to new settings

increase patient  
**comfort and mobility**

22 channel wireless PSG system  
Attended • Remotely Attended • Unattended

The **Sapphire PSG™** system is the latest in CleveMed's line of complete **wireless** PSG systems. Sapphire PSG includes a simple yet powerful polysomnography system that is comprised of a wireless, **22-channel PSG** acquisition system and a **complete software package**. Six EEG channels fulfill the requirements set by the new AASM PSG scoring guidelines. Onboard data storage capabilities allow unattended applications as well.

**Small and wireless**, Sapphire PSG integrates the headbox, amplifiers, transducers and data telemetry into one handheld unit. The simplicity of the system makes it uniquely suited for the traditional sleep lab, as well as non-traditional settings such as hospital rooms, remote facilities, pre-surgical suites, nursing homes and patient homes.

expanding the reach of your sleep services



## CleveMed

Cleveland Medical Devices Inc.

# Sapphire PSG™ Features and Benefits



**Small, integrated headbox and amplifier:** Incorporates full PSG signals for powerful and accurate sleep disorders diagnosis

**Lightweight, untethered, portable:** Easy installation, typically less than one hour, for new labs or for expansion | Enhances patient comfort and mobility

**Pressure-based airflow (nasal cannula/CPAP mask):** Sensitive airflow measurement for PSG and CPAP titration studies (single or differential pressure)

**Sophisticated PSG software:** Convenient scoring, customized reporting and easy patient record management

**Superior reliability:** Removable SD memory card for data backup | 1GB card will hold up to six studies

**Built on over 15 years of experience in designing and manufacturing wireless medical devices:** More reliable wireless technology, including proprietary data management methods

**Superior technical support:** 24/7 technical support | Web based support for more efficient software training and assistance | Reliable hardware + Loaner units available for express shipping\* = Minimal downtime

## System Specifications

### Patient Unit

**Weight:** 19oz (538 g) (approx.)

with batteries

**Power:** 4 AA batteries, 12 hours use

### Operating Frequency:

902-928 MHz (ISM band)

### Data Transmission Range:

100 ft (30 m) line of sight (approx)\*\*

**Memory:** Removable SD memory card

### Computer Unit

**Weight:** 7.1 oz (200 g)

**Power:** USB

**PC Interface:** USB

\* Loaner units available for customers in the U.S.

\*\* Transmission distance varies based on the operating frequency and the building architecture.

Sapphire PSG is part of the Family of Crystal 20 Monitors and is FDA cleared to market under 510k number K042039.

Sapphire PSG and Crystal PSG are trademarks of Cleveland Medical Devices Inc., Cleveland, OH.

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Caution: Federal law restricts this device to sale by or on the order of a physician only.

## Input Channels

- 6 channels of EEG
  - F3-A2
  - C3-A2
  - O1-A2
  - F4-A1
  - C4-A1
  - O2-A1
- 2 channels of EOG
  - LEOG-A2
  - REOG-A1
- 3 channels of EMG
  - Left leg
  - Right leg
  - 1 additional EMG
- ECG
- Thermistor
- 2 channels of Chin EMG
- Pulse Oximetry
- Airflow (pressure based)
- Snore (derived)
- Thoracic Effort
- Abdominal Effort
- Body Position
- Auxiliary DC (blood pressure, etc.)

# Crystal PSG™ Software

## Data Acquisition

- Quick and easy system setup

## Record Management

- Recall studies quickly using a study database
- Patient tracking

## Review

- View data with fully configurable waveform displays
- Quick manual scoring

## Reporting

- Custom reports can be tailored to the user's specific needs
- Standard report templates can be used to output a comprehensive report
- Seamless integration with entire patient and study database



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