



## Schwarzer PSG

featuring Coherence software

**Whether your practice is neurology-based or pneumology-based, the Schwarzer PSG system offers a complete sleep solution**

### Dedicated Hardware

#### Performance

The Schwarzer PSG amplifier and optional interface box together offer up to 62 channels. Pressure, oximetry and temperature/light inputs are built-in, while external devices can be connected via one of the 12 high-level inputs.

#### Flexibility

Select preferred sensors and connect them to any of the nonproprietary input connectors. Designate preferred channels, and build an electrode set and related display montages according to each recording protocol.

### Coherence Software

Coherence software is known for its stability and advanced signal analysis. Features such as calibration, channel control and digital video permit users to focus on clinical protocol rather than equipment.

Coherence offers both automated analysis and flexible event editing.

Frequency analysis is processed during recording, enabling concurrent review and scoring from any networked review station.

# Schwarzer PSG Amplifiers

## Hardware at-a-glance

### Universal Connectivity

USB is the most efficient way to connect routine amplifiers to the host PC. Optional category 5 network cable extenders enable installation of the amplifier in patient rooms.

### Inputs

#### Schwarzer PSG Amplifier – 44 channels

- 33 referential inputs for EEG, EOG and more
- 2 bipolar inputs for ECG & chin EMG
- 3 low level flow inputs
- 2 inputs for thoracic & abdominal effort
- 1 input for snoring
- 1 input for body position
- 1 input for body temperature sensor
- 1 input for pulse oximetry with Pulse Transit Time option (PTT)

#### PAIB Interface Box – 16 channels

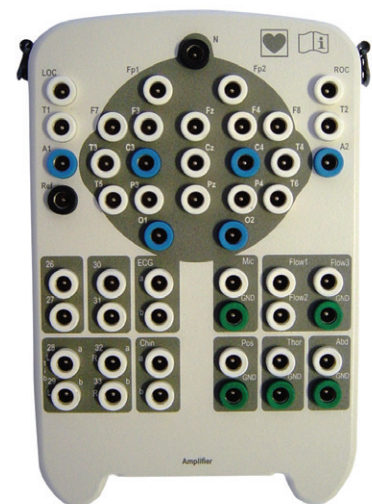
- Pressure input for use with nasal cannula or CPAP
- Inbuilt pneumotachograph allowing true flow measurement with CPAP masks
- 1 light sensor
- 12 high-level DC inputs for external devices

### Patient Flexibility

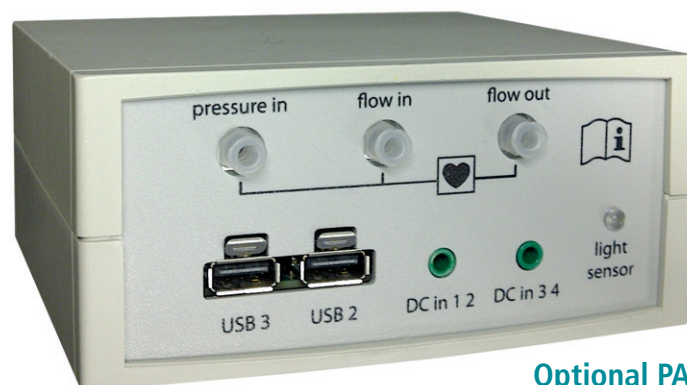
The PSG mini electrode box enables easy connection/disconnection of the patient without manipulation of individual electrode leads.



duo 44 Amplifier



Mini PSG Electrode Box



Mini EEG Electrode Box



Optional PAIB Interface box with pneumotachograph

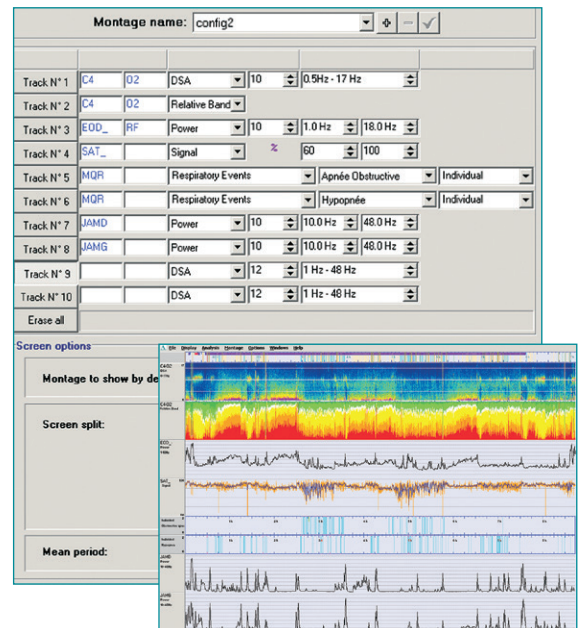
# Deltamed Coherence Software

## Coherence Features

### Customized & Flexible Trending

Users can program condensed mode montages of analysis windows, such as FFT, power distribution, compressed signal mode, or event tracking. Windows can display simultaneously in horizontal or vertical split screen mode for convenient, single-click access to waveforms.

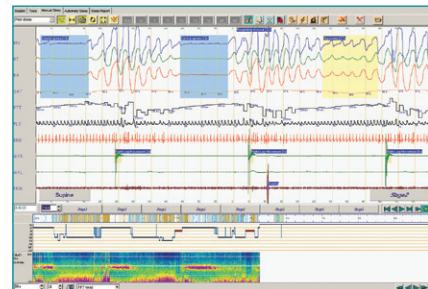
Displaying condensed mode DSA of EEG data results in semi-automatic sleep staging, decreasing analysis time and improving reliability. Analysis windows easily incorporate into reports generated by the system.



### Single-click Scoring

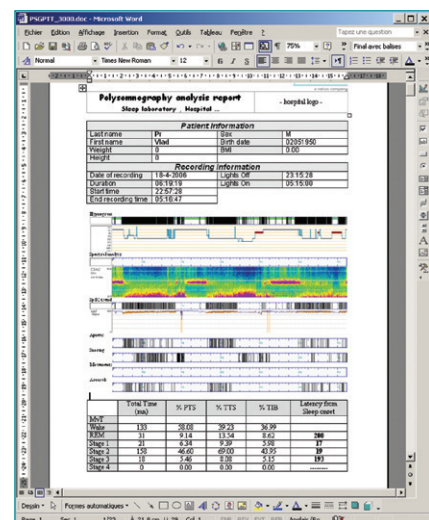
For efficient scoring time, simply 'drop' events onto the screen and place rarely used items in drop-down menus.

Coherence software displays data in two separate windows, each with its own user-defined epoch size and montage. Users can simultaneously view and score EEG, respiratory, or other data while using different time bases. The two windows synchronize during data review.



### Flexible Reports

Choose from a library of standard reports, customize existing templates, or create a new format based on lab needs. Reports are created in Microsoft® Word for simplified editing.



### Remote Monitoring

Using only a computer mouse and keyboard in the patient room, users can assess signal quality and have full system control during study set-up.



## Digital Video

### HD video from network cameras

Coherence software can record standard or high definition video directly from Day/Night network cameras. Network cameras utilize a standard network cable and are controlled from the acquisition software or from any computer on the network. H.264 compression guarantees the highest video and audio quality with optimal compression ratio.

### Presentations

Coherence PSG & video can be reviewed any time, any place using the Coherence DeltaFree browser or using the Coherence Freeviewer (via DVD).

In addition, Coherence exclusively features a built-in video clip generator allowing creation of high resolution clips (1280 x 720 pixels) in order to preserve original EEG and video quality. Coherence includes a built-in video clip editor specifically designed for presentations.

### Integrated Data Management

Schwarzer EEG, PSG and EMG products in the neurophysiology lab share a single data management system:

- Schwarzer EEG
- Schwarzer PSG
- Schwarzer EMG/EP
- HL7 Interface to HIS



## A High-Performance System with High-Performance Support

Standing behind every Schwarzer product is Natus Medical Incorporated, an internationally respected innovator of medical products and services.

Our PSG systems are backed up by an in-house support team staffed with technical and clinical experts, the largest clinical and technical field support network in Neuro/Sleep and customized service contracts that include preventative maintenance visits and computer upgrades. No one supports you better than Natus.

**natus**  
neurology

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