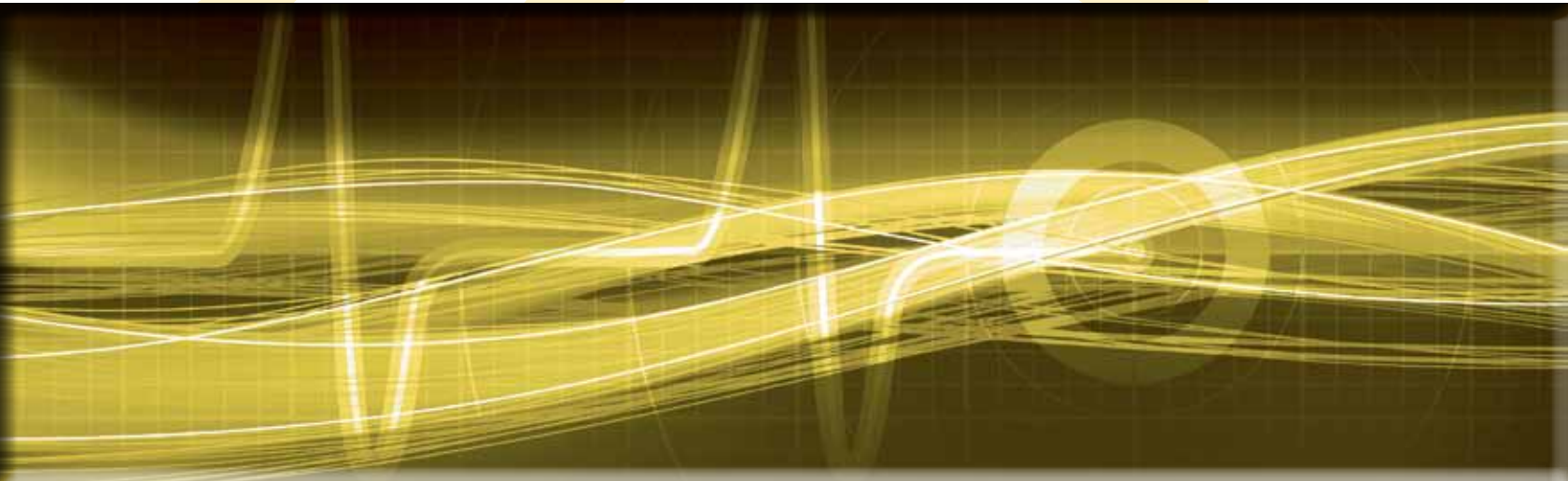




**e3** *Easy*<sup>®</sup> III PSG



Advancing medical technology to help you, help others.

 **CADWELL**<sup>®</sup>



## The Cadwell Difference

### Experience The Cadwell Difference – Since 1979

The benefits of owning a Cadwell system are numerous. Our development team understands and delivers what you need. Everyone at Cadwell stands behind our products and we all have the same goal - to keep you as a loyal, devoted customer long into the future.

### Innovative Neurodiagnostic Instruments

John Cadwell, BSEE, MD designed the first microprocessor controlled EMG instrument. In 1979 he and his brother Carl, DDS, formed Cadwell Laboratories, Inc. and began selling their device. Since then, Cadwell has been a leader in the development and manufacturing of innovative and reliable instruments for neurophysiology. Many of these instruments have been providing decades of service to their owners.

Numerous patents are held by Cadwell, including those for magnetic stimulators, cable shielding designs, neural network analysis of EEG and database designs. Today, still located in Kennewick, Washington, John and Carl continue ownership of the company and come to work everyday to develop and market products ranging from EMG to EEG to PSG to IONM instrumentation and more. Cadwell has a firm hold of its identity and a dedicated focus on neurophysiology.

Advancing medical technology to help you, help others.

### Finally, it is time to rest Easy.

The Cadwell Easy III PSG system has an intuitive and customizable user interface, a variety of innovative amplifier options and many advanced features that represent a new standard of excellence for the world of polysomnography. All developed and manufactured in our Kennewick, Washington factory. A few key features and benefits include:

- Intuitive software with many powerful user-friendly features.
- Advanced amplifier designs deliver unsurpassed signal quality.
- Rapid scoring, review and report generation help make your lab more efficient.
- Comprehensive information management system with strong networking and remote access features.



## Features of the Easy III PSG

Easy III incorporates the latest developments in amplifier design and signal processing to provide unprecedented performance. This compact self-contained data acquisition system includes 32 AC channels, seven of which are active reference pairs, and eight DC channels. Convenient visible and IR light detectors on the amplifier verify "lights on" and "lights off." The Easy III software is compatible with Easy II and Easy Ambulatory systems, providing a convenient upgrade path and an integrated solution for the laboratory.



With Easy III everything you need is right at the bedside. LEDs on the amplifier verify network connection and assure that data are being acquired and transmitted. Electrode impedance can be measured both at the amplifier and at the system computer. Recessed electrode and connector ports provide strain relief to insure that all cables are securely connected. The Easy III amplifier uses a standard network connection, making computer upgrades and changes to laboratory layout easy.

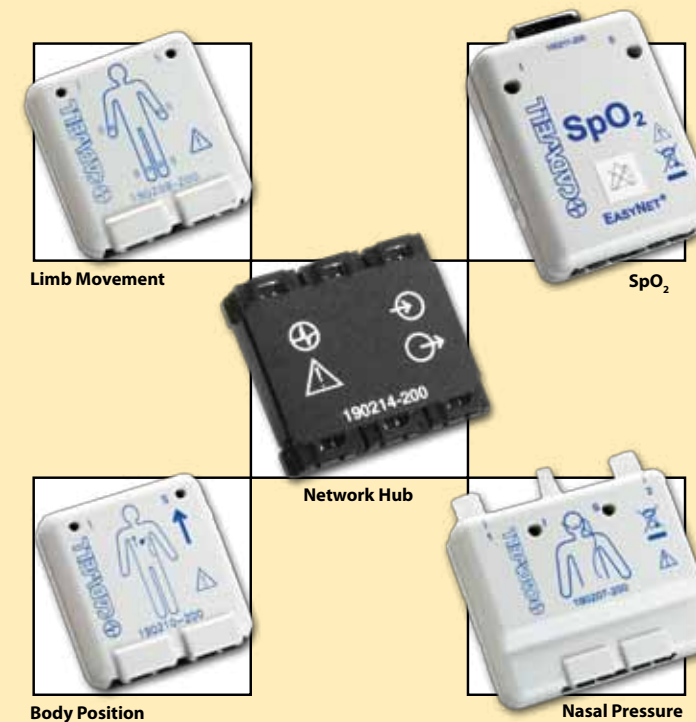


## Q-Video®

MPEG-4 video compression, along with Cadwell's proprietary Q-Video® technology allows the user to quickly identify movement during data acquisition. Video resolution and frame rate are adjustable on-the-fly to create the desired results. The Q-Video editor allows for rapid editing and downsizing of the video files as needed before archiving. Using Q-Video, a unique technology developed by the engineers at Cadwell, movement is depicted with color making it easy to identify.



## EasyNet® Patient Modules

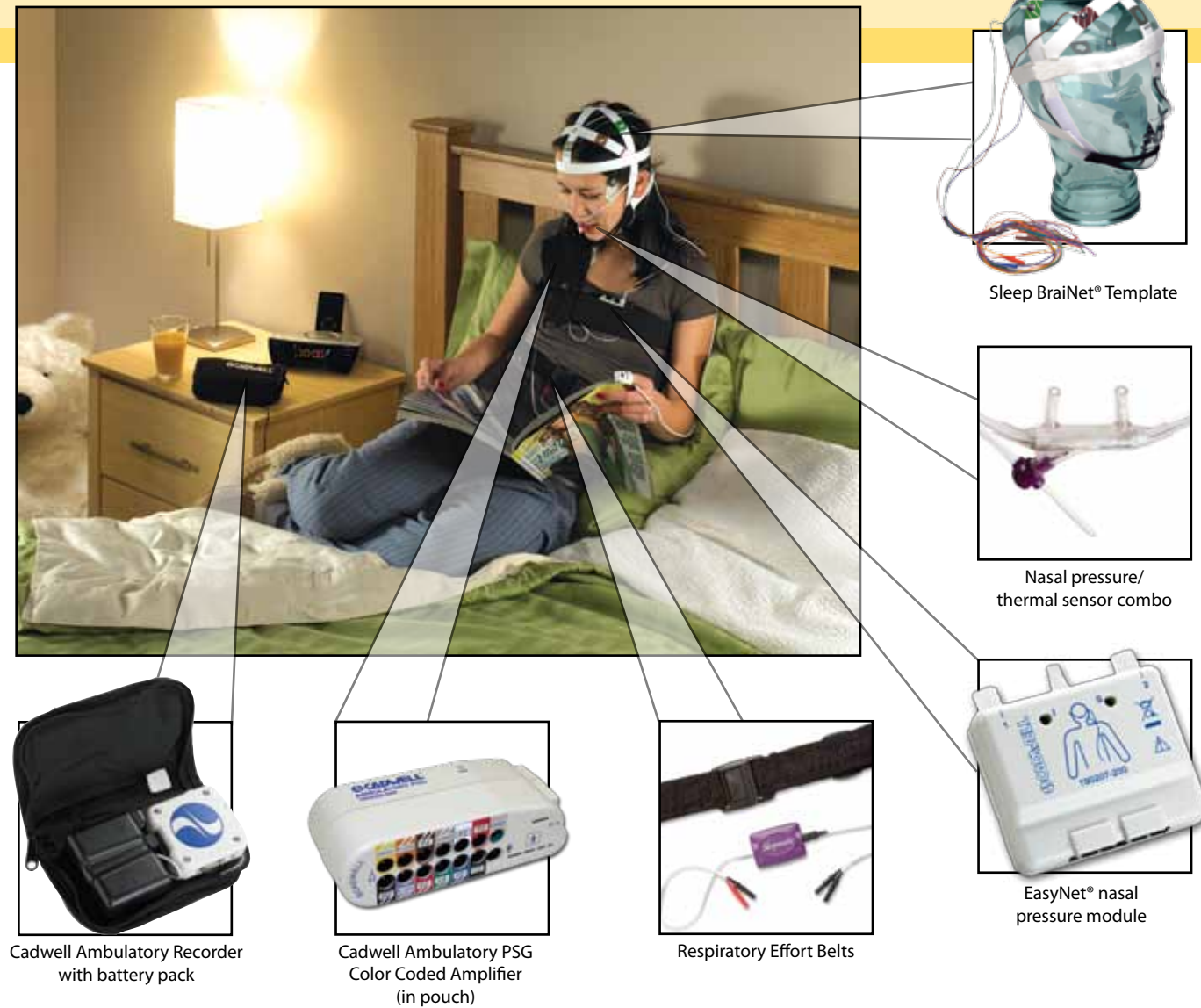


Cadwell's convenient EasyNet® modules, remote input boxes and other accessories create a real body area network on the patient and make test preparation easy, fast and comfortable for the patient. EasyNet modules are the lightest and most compact sensors available for a variety of parameters, including SpO<sub>2</sub>, body position, nasal pressure, and limb movement. The Cadwell EasyNet system optimizes cable management and provides unprecedented freedom of movement for the patient. EasyNet modules are used for both in-lab and ambulatory studies and are fully compatible with both Easy III and Easy Ambulatory systems.

## Easy Ambulatory

The Easy Ambulatory system is designed to perform type 1 through type 4 sleep studies. Its modular design allows the user to employ only the components necessary for the study type desired. With the Easy Ambulatory system, any hospital bed can become an extension of the sleep laboratory. It provides an ideal solution for both apnea screening and complete PSG studies, whether in the hospital or at the patient's home.

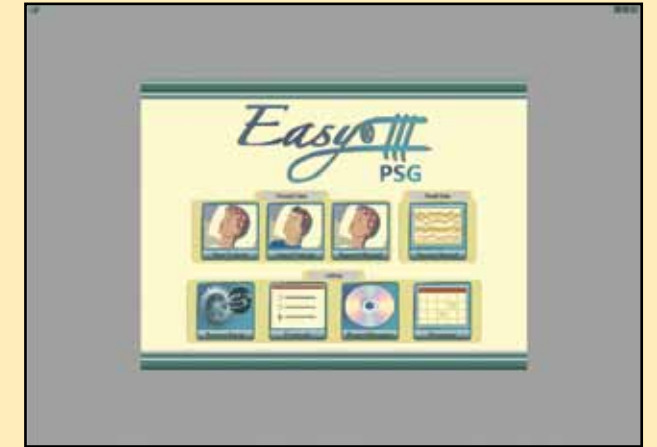
The Easy Ambulatory amplifier weighs only 5 ounces, and the entire ambulatory system including amplifier, recorder, battery pack and carrying case weighs just 1.2 pounds. Data collected are indistinguishable from those collected using the Easy III amplifier. Easy Ambulatory products use the same software and laboratory information management system as other Easy systems and data are downloaded to an Easy work station for analysis using a standard network connection.



## Easy Software

As the name implies, Easy III's interactive and customizable user interface makes data acquisition simple, and the software easy for clinicians to learn. Buttons on the acquisition screen accomplish common tasks such as calibration and impedance measurement with a single click. Others mark events and record key information:

- lights off/on
- CPAP/BiLevel pressure
- sleep onset
- optimal pressure
- body position
- oxygen titration levels



Easy III PSG Launch Screen

### On-the-Fly Controls

A simple click on a recording channel provides a drop down menu for re-referencing electrodes on the fly or for changing sensitivity, filters and other waveform characteristics for that channel. Sensitivity and filter changes can also be made for groups of electrodes simultaneously.

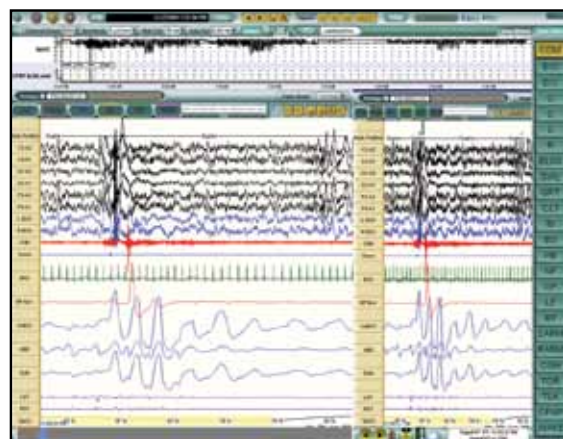
Making annotations to the record is quicker than ever. Simply choose from pre-defined comments and position the comment on the record in the desired location. For a longer comment or one requiring further explanation, just open a dialog box and begin typing. Other readily accessible and intuitive commands are available to change montages, change the size of the epoch displayed, or enter bookmarks into the record for quick reference at a later time.



### Customizable Workspace

One of Easy III's most creative and friendly features is the ability for a user to customize the way their workspace is displayed. They have the ability to create a variety of views, which each containing different types of data in different formats. Various montages, waveform characteristics, time bases, and other parameters can be assigned for each view. The user is able to toggle through these views to quickly change the way information is displayed. Examples of useful views are:

- Full-screen PSG trace
- Multiple time base views
- PSG trace, events list, numerical values
- Lookback



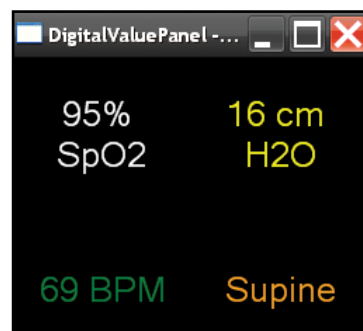
Lookback View

### Optional Windows

Cadwell's proprietary Satellite View™ compresses up to 100 epochs of data into a single sizable window. This provides an overview of a segment of the study and is particularly useful in identifying Cyclical Alternating Patterns (CAPs). Underlying event details can also be viewed by simply clicking on the segment of interest.

In addition to having a number of view options, the user has the ability to open specific windows and place them where he or she chooses on the screen or on a second monitor at any time during data acquisition or review. Any window can also be used in a view. Examples of useful Windows available include:

- Digital Value Panel
- File Editing Toolbar
- EKG Holter View
- Satellite View™
- Event list
- Real time report token calculations



Easy III provides multiple ways of effortlessly navigating through the record. Patient data and video are synchronized as the user reviews the study. Convenient bookmarks can be placed into the record allowing the user to identify and quickly return to points of interest. A single click is all that is required to move from summary histograms to the underlying data.

### Scoring and Review

Cadwell's computer assisted scoring module assists the user. Records can be scored either during acquisition or after the study has been completed. Using a two monitor system, current data acquisition can be viewed on one monitor while earlier portions of the study are being scored on the other.

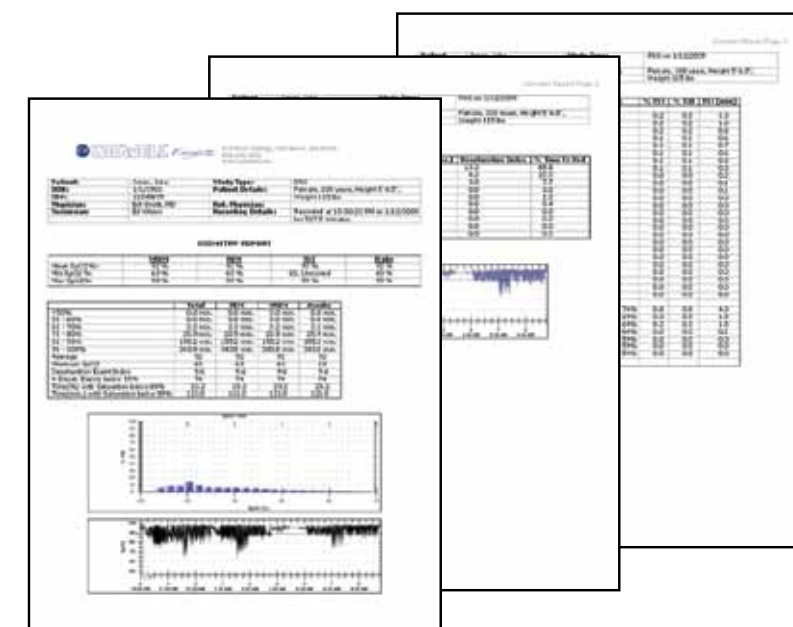
For quality control and training, Easy III PSG systems include an innovative inter-scorer reliability and comparison program called Scorer-to-Scorer™. This program helps your laboratory obtain and maintain your quality assurance objectives. The laboratory supervisor or master scorer can score a record and use it to compare the scoring of other technicians in the laboratory.

### Flexible Report Generator

Designed for speed and flexibility, reports are fully customizable. The user can choose from a selection of standard report formats, or easily create his or her own. Report templates can be edited to provide the specific information desired. The Easy III report generator can be accessed from the data acquisition screen and is available to rapidly create your choice of reports at any time during acquisition, at the end of the study or at a later time. Easy III reports are saved as Microsoft® Word documents for easy editing and sharing.



Dual monitor configurations increase efficiency during data collection and review.

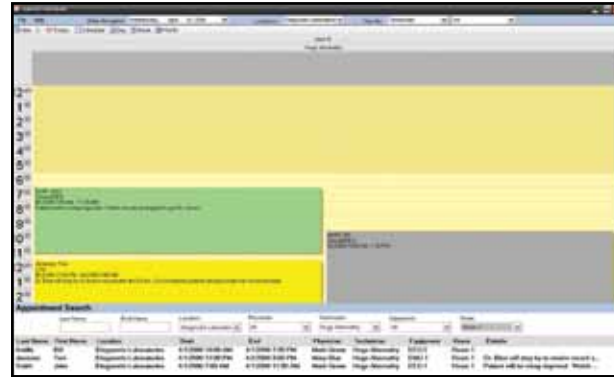


Comprehensive oximetry report

The Cadwell Easy III PSG system provides an extensive library of calculated values, indices, graphs and other tokens that can be incorporated into reports, making report capabilities almost unlimited. A single report is provided for split night studies showing the period before treatment begins as well as periods with CPAP and supplemental O<sub>2</sub>.

### Integrated Patient Scheduler

The Scheduler/Calendar in Easy III manages multiple locations or laboratories. It can be configured on a reception or clerk's computer without the need to install the entire Easy III program. Color coding quickly confirms the status of all patients. A handy search tool allows any authorized user to quickly locate a patient record and items can be viewed by, room number, equipment type, physicians, technician, etc. Technicians can actually begin a recording directly from the calendar.



### Management control of system changes and file access

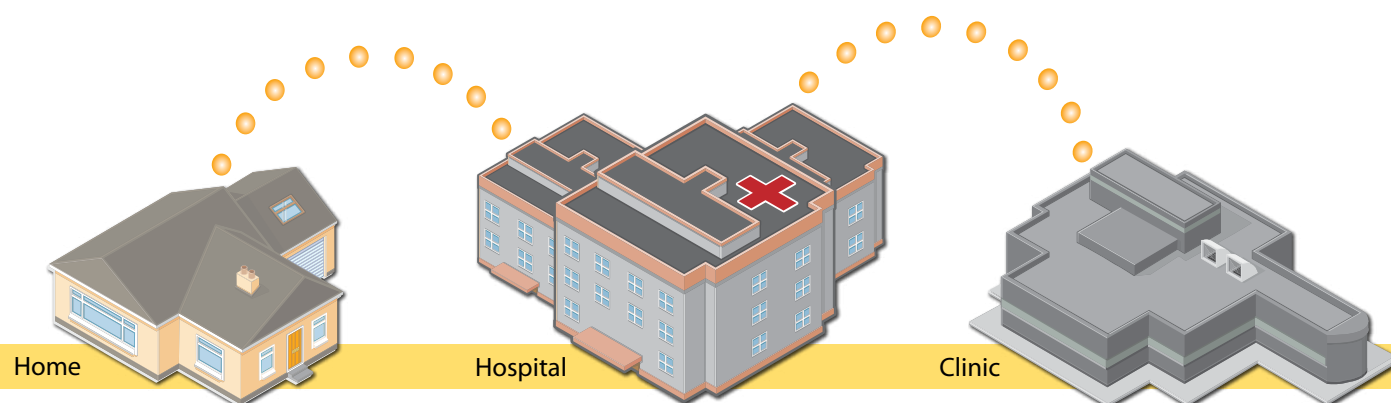
As each user logs into the system, pre-determined privileges for that user are invoked. The system administrator can grant or limit access for each user to view patient information, delete or edit files, change system settings, or conduct other functions which the laboratory wishes to control. All access to patient data is logged as required for HIPAA compliance.

The Easy III laboratory information management system is an automatically synchronized database. This innovative feature provides the user with immediate access to all patient and test information from any authorized computer on the network.

A clinical database is available with the Easy III system to capture and summarize clinical and laboratory specific data. Default database reports quickly summarize information about the laboratory patient population. The database reports also assist laboratories in achieving HIPAA compliance with audit trail reports summarizing record access by user. Both clinical database reports and laboratory specific data are automatically captured by the Easy III system.

### Convenient remote monitoring capabilities

Easy III takes full advantage of the latest technology in data transmission, networking and remote access. Digital IP cameras allow the user to control the camera from anywhere on the network. Patient data and video can also be reviewed from the physician's office, home or other remote location using a secure VPN.



### Cadwell Customer Support



Cadwell is focused on making you a satisfied, loyal customer for years to come. Our telephone support is second to none. We answer every call during business hours with a real person. Our in-house employee technicians are trained professionals. Our web-based support program allows our technicians to troubleshoot real time – as if they were in your office. Our flexible support programs will meet your specific needs. Just ask.



### Supplies and Accessories

The flexible design of Cadwell's amplifiers and software allows the use of almost all standard electrodes and accessories. Cadwell offers a comprehensive line of consumables for neurological monitoring, including cEEG, PSG, Clinical and Ambulatory EEG.



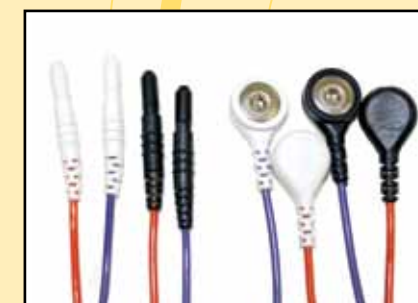
Sleep BraiNet® Template



PSG Color Coded Input Box



PSG Color Coded Electrodes



Color Coded Snap Electrodes



CannuTherm™ Thermal and Nasal Pressure Sensor



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