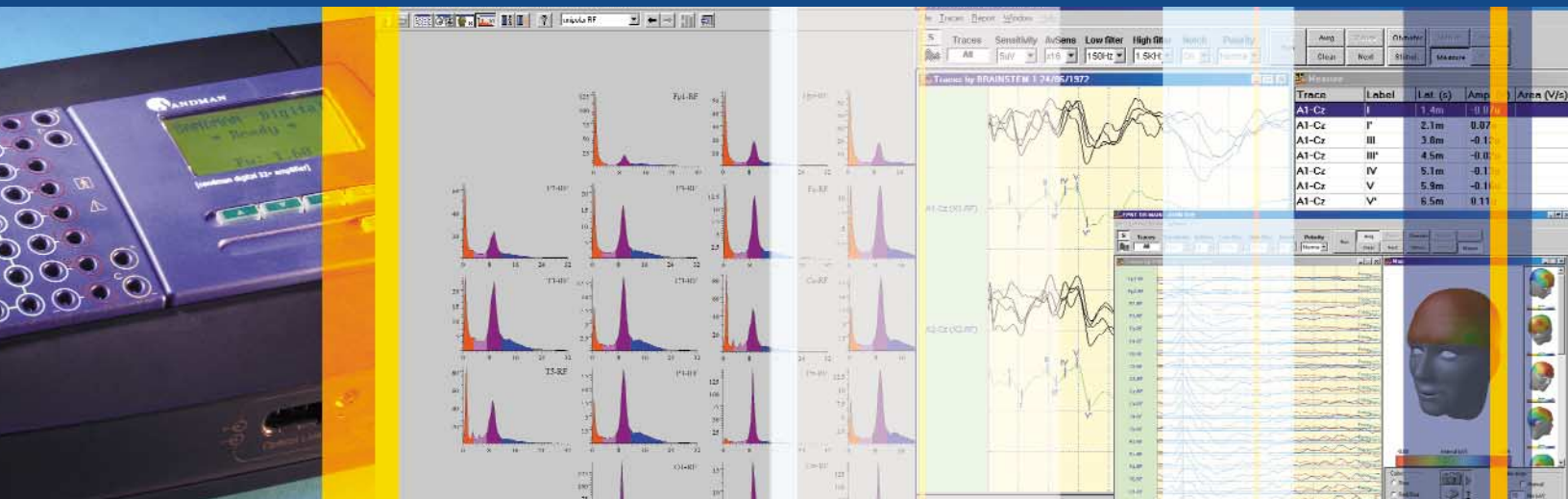


[sandmanspyder]

## Neurodiagnostic System

- > An advanced neurodiagnostic system for the collection and analysis of clinical and/or experimental EEG and EP data.
- > Fully integrated data management system allowing for multiple databases with various user-defined levels of access security and functional capabilities.
- > Computer-assisted analysis of both sensory (BAEPs, PSVEPs, and SEPs), and cognitive evoked potentials (P300 and CNV).
- > 3-D dynamic topographical EEG and spectral mapping.
- > Compact and fully assembled trolley for system portability. (optional)
- > Advanced remote technical support via modem, plus 24-hour telephone technical support.
- > Long-term video EEG monitoring.



## [the new vision of high resolution EEG/EP]

### Collection and Analysis

- > User friendly, flexible and intuitive menu driven neurodiagnostic system
- > 40 channel standard data collection
- > Data collection from EEG (and Video EEG) to Cognitive and Sensory Evoked Potentials
- > User selectable sampling rates, high and low filters, gain and sensitivity settings
- > Advanced multi-referencing and user-created montage library on the fly
- > Easy-to-use data segmentation (for the selection and backup of interesting and clinically significant events)
- > Easily adjust window or page size in collection and analysis
- > Auto page review at variable user-selected speeds
- > Zoom function and statistical analysis display
- > Reliable long-term EEG recording (with and without video)
- > Available on either Windows XP or Windows 2000 operating system

### Database

- > Easily and safely manage all patient information employing the simple, easy-to-use, yet powerful database management system
- > Maintain security and privacy of patient data by employing sophisticated password access controls
- > Quickly and easily search for patients, exams or data records using an advanced search engine with flexible graphical interface
- > Advanced data backup and archiving utilities

### Evoked Potentials (optional)

- > Cognitive and sensory evoked potential data collection and analysis including somatosensory, visual (flash and pattern) and auditory modalities
- > Programmable interface allowing users to customize stimulation protocols and automated measurement routines

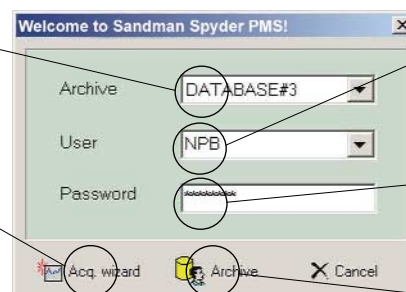
### Sandman Spyder Program Entry

#### Database Selection

Create multiple databases for as many different patients or study groups as you wish

#### Acquisition Wizard

Jump into collection mode bypassing the database interface



#### Specific User Access

Lab manager can decide who will have access to any given database and the level of access that they will have

#### Password Controlled Access

Allows only those users with their own unique password to gain entry into designated databases within the system

#### Archive Entry

Allows users to enter the archive for which they have access privileges

**GRAPH ATTRIBUTES**

Sandman Spyder Startup & Database

**Access to all Databases**

Allows users to move between any archive for which they have access privileges (Password controlled)

**All Patients View**

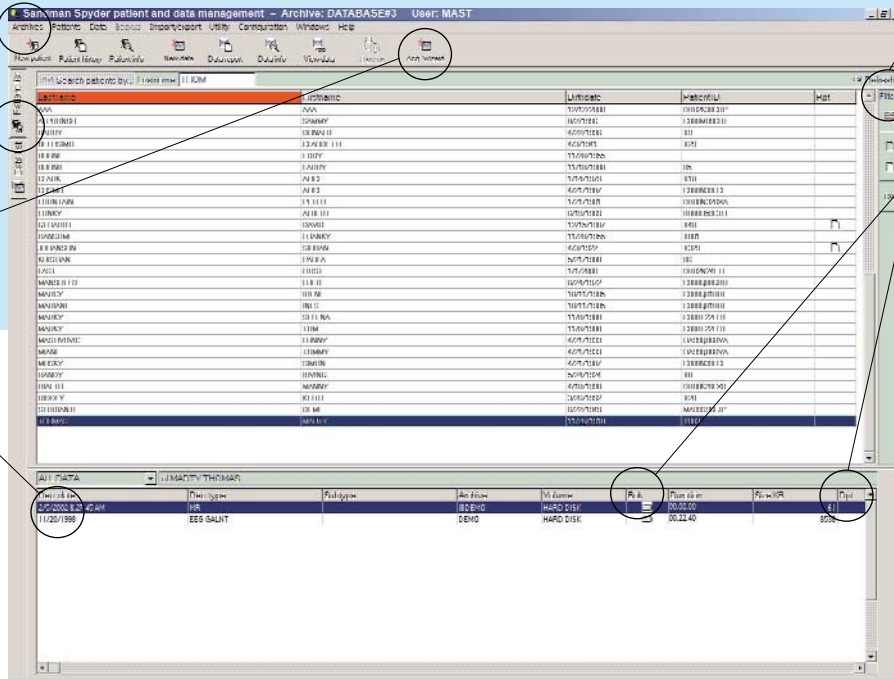
View all patients in the database

**Acquisition Wizard**

Start a new study easily bypassing non-critical data entry

**View All Studies**

View tests, reports and more for each patient in the database



**Patient Query**

Find patients by birth date, age, patient codes and/or values, or by user-defined saved search criteria

**Data Information Bar**

Displays record date, study type, archive to which the data belongs, duration of study, study size, and backup status

**GRAPH ATTRIBUTES**

Sandman Spyder Analysis Screen

**Spectral Analysis Mapping**

Including Power, Amplitude, Mean Frequency, Peak Frequency, and more

**FFT Analysis**

User definable parameters for FFT processing

**Icons for Direct Link**

To patient and data reports

**Page Size and Sensitivity**

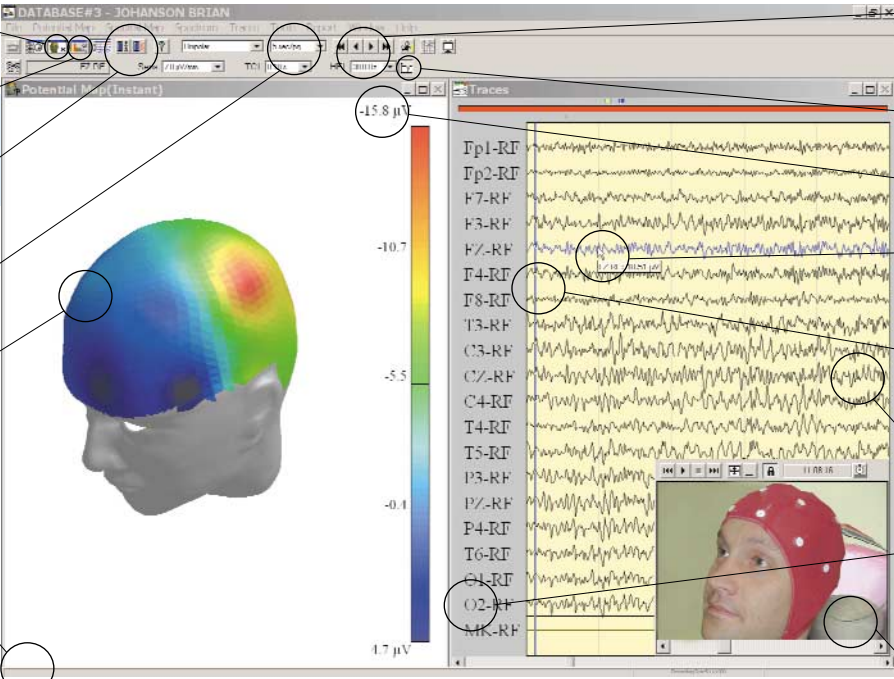
Easy-to-use drop down selection

**3-D Dynamic Brain Mapping**

Topographic viewing of mean or peak amplitude data from any angle (also available: spectral mapping)

**Chronometry Bar**

Shows record date, current time position within the study, elapsed time, and study duration



**Review Data**

Review data by page, second, or fraction of a second

**Variable Filter Settings**

High, Low and Notch filters

**Customizable Scale Range**

Automatic or preset scale ranges

**Built-in Voltage Meter**

Fast and easy data amplitude inspection

**Manual Cursor Placement**

For synchronized mapping, video, and amplitude measurements

**Crisp, Clear Data Signals**

Reviewable manually, automatically or with real-time panning display

**Re-reference**

Montage creation on the fly or select from the library of montage settings

**Synchronized Digital Video EEG**

For precise viewing of time-locked patient video and EEG data

## Specifications

### Modules (included)

- > Collection
- > Review
- > Database
- > Remote Support

### Optional Software Modules

- > Three dimensional dynamic mapping
- > Synchronized digital video EEG
- > Evoked potential collection and analysis
- > P300 evoked potential
- > Contingent Negative Variation (CNV) evoked potential
- > Compressed Spectral Array (CSA) analysis

### Computer Requirements

Dell® Optiplex GX 260 1.8 GHz
1 GB SDRAM
80 GB Hard Drive
1600 x 1200 resolution
Windows 2000® and XP® operating systems
CDRW Drive 40x
Intellimouse

NOTE: System performance will increase with improved hardware.  
Please contact technical services for minimum hardware specifications.

### Required Hardware

Sandman Digital 32+ Amplifier (SD32+)* System
-----------------------------------------------

### Optional Hardware

Sandman Spyder white strobe photic stimulator kit
Sandman Spyder evoked potential stimulation hardware
Trolley and isolation transformer
Floor stand and component arms
Calibrated headphones
Video capture card
Video camera and related cabling
Laser jet printer
Thermal printer
Color deskjet Printer
LED photic stimulator goggles
Extra somatosensory stimulator
Additional 80 GB hard drive

\*For additional information on the amplifier see the SD32+ brochure

## Recommended

We recommend and supply DELL® computer systems. The dependable hardware and excellent support service supplied with each computer system are outstanding. Each computer comes with a three-year warranty which includes next business day on-site service from the manufacturer.

Specifications subject to change without notice.  
CAUTION: Federal (U.S.A.) law restricts this device to sale by or on the order of a physician.  
Doc No. D. MK000047.00 Rev. A02