Digital Neurography « at your fingertips »

- Stand Alone Station
- Networked Station

Options
- EP (AEP, SEP, VEP, MEP)
- NCV
- EMG
- EEG
- Synchronized Videometrie
- Quantitative EEG – Spectra – Mapping - Coherence
- Trend Monitoring - power-, frequency, CSA, DSA
- Polysomnography
The complete Neurophysiology Lab

The alpha-trace digitalNeurograph truly delivers "Neurography at your fingertips." Based on the proven alpha-trace data base and featuring the unique graphic WorkingPlan the alpha-trace digitalNeurograph completes the integrated network solution for the Neurophysiology Lab.

The headphones for AEP, the electro stimulator for SEP and the optional LED goggle all connect to the base-unit. The Monitor for contrast VEP connects to the PC.

The head-box accommodates four referential inputs for EP studies and four additional difference inputs for EP, NCV studies.

The head-box also supports the well established DIN-connectors for NCV and EMG studies.

Evoked Potentials

Perform your EP (AEP, VEP, SEP, MEP) studies with preset setting options, select from lists of predefined tests, change stimulation parameters as required, automatic component detection, overlay, odd/even averaging, Left/Right display, difference displays, and the proven ease of use of alpha-trace products.

For more sophisticated applications all EP data are stored and ready for re-analysis and further evaluation.

Use the integrated report editor inserting graphics and tables for your report documents.

The graphic WorkingPlan allows for easy access to all recordings in your lab. Each session icon exhibits the date and time of the recording, the patient name and a pictogram representing the type of recording (EEG, AEP, VEP, SEP, NCV, EMG, SLEEP). Review EP data on any alpha-trace review station with the EP software option.

Define EP components as required (a basic set for routine applications is standard). Use predefined normative data or make up your own normative data base.

alpha-trace digitalNeurograph

The base-unit, the head-box on a swivel arm, the large high resolution TFT monitor, and the PC are all mounted on a compact trolley with large wheels.
Nerve Conduction Studies

Perform motor and sensory nerve conduction studies with alpha-trace typical ease of use. Predefine the nerves and tests you want to study per session. During the study you may add tests if required. Automatic markers with manual control, tables with calculated latency, amplitude, area, duration, and NCV values are available. Repeat a test at any position as necessary, no data are lost unless explicitly deleted.

EMG

The EMG package delivers ease of use for myographic studies. Capture and analyze insertion activity, MUAP, and interference. Adjust windows, amplitude-, and time scales as required; these settings are automatically stored. Select from a detailed muscle list and predefine a sequence of tests to be performed, add muscles as required during the study. Customize your list of muscles.

View test data on separate review station(s) with optional NCV review software. Archive/retrieve tests with integrated archive software.

Generate reports with user defined report templates, automatic graphic and table import and the text module feature.


Since the EMG raw data are stored a review of raw data and reanalysis are possible. Report generation with graphic and table insertion and customized report templates. Review EMG on networked review stations with the EMG review software option. Review all tests performed on a patient including Neurography, EEG, EP, SLEEP, EMG if applicable and software option installed.

Export/import tests in alpha-trace native format or EDF format (where applicable) if required.
**alpha-trace digitalNeurograph**

**Technical Data**

### Amplifier
- **No. channels**: 8
- **Range chan. 1-4**: +/- 100µV; +/- 1000µV
- **Range chan. 5-8**: +/- 15mV
- **Digital resolution**: 16 Bit per channel
- **Sampling rate**: 256 / 512 / 8192 / 16384Hz
- **Lower frequency**: 0.3 / 10 / 100 Hz
- **Upper frequency**: 100 / 2000 / 3000 / 8000 Hz
- **Notch filter**: 50/60 Hz
- **Recording (reference)**: against reference electrode
- **Functional test**: 10 / 500 Hz, 50 µV
- **Impedance**: 0.12 µA, Sine
- **Inputs**: channel 1-4 – REF, channel 5-8 difference, channel 5 and 8 DIN 5-pin

### Computer
- **Processor**: Intel dual core
- **Hard disk**: S-ATA 160 GB min.
- **CD**: DVD/CD-RW
- **Case**: Tower
- **Archive**: CD/DVD writer, optional MO drive

### Monitor
- **Recording Station**: 19" TFT (1280 x 1024)
- **Review Station**: 19" TFT (1280 x 1024)

### Operating System
- **Microsoft**: Windows XP prof.

### Trolley
- **Standard**: 55 x 90 x 58 cm (W x H x D)

### Software Basic
- **Basic software**: Reception (Database), Record, Review, Report, Archive, Definitions, Database search, Import / Export, EDF Import / Export

### Software specific*
- **NCV**: NCV motor, NCV sensory
- **EP**: AEP, BAEP, P300
- **VEP**: VEP contrast, goggle, flash, P300
- **SSEP**: insertion activity, MUAP, interference

### Stimulators
- **SEP/NCV**: constant current stimulator 0-100 mA
- **VEP**: contrast monitor 19"
- **LED goggle**: LED flash lamp
- **AEP**: headphones

### Upgrades and Options
- **Printer**: color inkjet printer, Laser printer
- **Archive**: 5,2 GB 5,25" MO disk drive

### Complies with
- EN 60601-1/1990+A1/93+A2/95
- EN 60601-2-26/2003
- EN 60601-2-40/1998
- EN 60601-1-2/2001

* Software module options
** Stimulator options

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**B.E.S.T. medical systems**

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