39-122 – SomniPro 19ch PSG + TruScan 32ch EEG, polysomnographic test set

The 39-122 set comes with SomnPro19 and TruScan 32, together they constitute a comprehensive quality system for testing PSG and EEG. The polysomnographic SomniPro19 system offers a wide range of PSG tests. It allows: the acquisition of EEG, EMG, EOG, ECG, measurment of respiratory effort and body position and snoring, manual and automatic analysis of sleep, reports, full synchronization of the image of the EEG. TruScan 32 offers photo stimulation up to 60Hz, brain mapping, VEP/P300 preview and spectral analysis of multiple segments. The platform offers a high resolution signal processing, monitoring the correctnes of electrodes' connection and an intuitive user interface. It also allows up to 128 channels and an ultra-low noise input, below 1mVp-p. This hardware platform was developed for neurodiagnostic systems and designed for the acquisition of the highest quality signals. This makes the working with the device very easy and pleasant.

This set includes:
- SomniPro 19ch PSG head
- TruScan 32ch EEG head
- USB adapter
- photo stimulator
- comfortable and modern computer workstation with integrated, quiet, PC and a 22" LCD monitor
- PSG and EEG head charger
- software for data storage (can also record data to DVD)
- snoring detector, respiratory effort registration system (belt and loop detector), body position sensor, air flow sensor, SPO2 sensor, a set of electrodes and quick installation disk, 32 channel cap, ear electrode, gel with an applicator

Features:
- acquisition of EEG , EMG , EOG , ECG
- photo-stimulation up to 60Hz (unlimited programs)
- unlimited number of electrode configutation's programs
- event markers with the ability to assign quick notes
- amplitude, frequency brain mapping
- spectral analysis of several segments
- export to Exel
- event manager
- split screen preview mode - up to 4 windows
- export to Matlab
- export to other EEG / ERP formats
- VEP/P300 preview
- LORET analysis export
- recording on Compact Flash memory cards (4GB standard)
- 24-30 hours of continuous operation
- patient event marker placed on the housing
- LED impedance indicator
- high impedance alarm - flashing LED
- can record up to 128 channels and visualization
- integrated video recording day / night - special industrial camera
- PIP function, remote control - zoom in, camera position, intensity of the infrared light

•network video server for multiple stations
•battery operated
•high sampling rate
•optic isolation
•click n' play portable functionality – can work with a laptop, does not require external power supply

Specifications:
- number of channels: 32 to 128 + 6EEG, 4 EMG, 3EOG, 1EKG, 5 external
- DC frequency of 4,096Hz per channel
- band (+0 -1 dB): 460Hz per channel
- analog time constant: 0.03 ~ 10s by default 0.3 s
- sensitivity of 1uV/cm to 2V/cm
- max in. DC offset: ± 250 mV
- feed rate of 10 - 120 mm / s
- equivalent input noise: 1 µVp-p
- sampling frequency: 128, 256, 512 or 1024, 2048Hz
- A/D resolution: 16 bit, 24bit
- automatic calibration
- CMRR: 105 dB
- IMR: 140 dB
- input impedance.: 1000 GOHM
- power supply: 4 AA batteries
- length of continuous service: 5 days (120 hours)

Manufacturer:
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