

# NeXus-4

**Connect to the Wireless Future of Physiological Monitoring & Biofeedback!**

## BlueTooth WIRELESS

technology offering a real time connection to your PC.



### High grade Connectors

(brushed aluminum) with low noise carbon coated cables and active shielding. (Sensors are compatible with NeXus-10)

**2 Fast Inputs** offering ultra high **24 bit** resolution for EEG, EMG, ECG, EOG & other DC signals at up to 1024 samples per second!

**2 Aux Inputs** (24 bit) for any combination of Respiration, Blood Volume Pulse, Heart Rate (BVP), Skin Conductance (SC/GSR) or Skin Temperature.



**Records up to 24 hours on FLASH memory**

Examples: EEG, ECG or HRV data recording.

**Portability:** this is a handheld system that fits in your pocket. It runs on 2 standard (rechargeable) AA batteries.

**Mind Media BV** (Netherlands) is now offering the new NeXus-4. The NeXus-4 is a 4 channel Physiological Monitoring and Feedback system that utilizes BlueTooth Wireless Communication and Flash Memory Technologies. NeXus-4 offers data acquisition at up to 1024 samples per second. The advanced technology preamps use ultra high resolution 24 bit AD converters with DC coupled amplifiers allowing for signals from 0Hz to 450Hz, including EEG, ECG, raw EMG, EOG and other DC signals. Because this system uses carbon coated cables with active shielding, movement and noise levels are very low by design! NeXus-4 has built-in continuous electrode-check.

### Specifications:

2 FAST channels	1024 Samples/sec	24 bit ADC output	DC-450 Hz
2 AUX channels	128 Samples/sec	24 bit ADC output	DC-50 Hz

### A wide range of optional sensors is available:

Sensors: EEG, EMG, ECG, EOG and true DC.  
Sensors: RSP, BVP, SC/GSR and Skin Temperature.

**BVP finger sensor**  
Article: NX-BVP-1A



**2 channel EEG/EMG/EKG/EOG cable**  
Article: NX-EXG-2A

**RSP sensor (respiration)**  
Article: NX-RSP-1A



**EXG ground reference cable**  
Article: NX-REF1A-SNP

**Temperatur sensor (skin)**  
Article: NX-TMP-1A



**2 Channel EEG sensor cable**  
Article: NX-EEG-2B

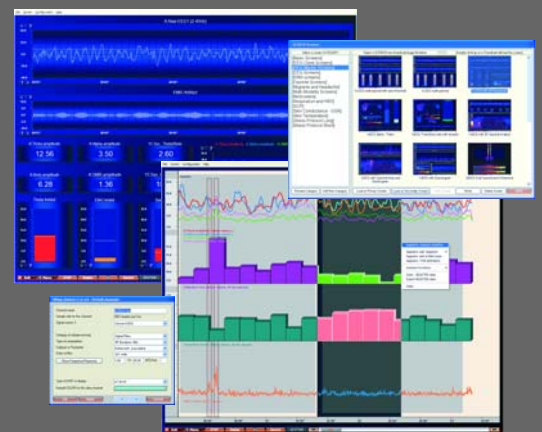
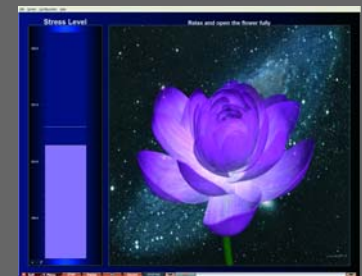
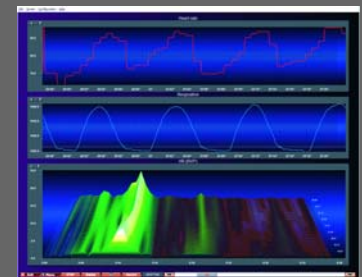
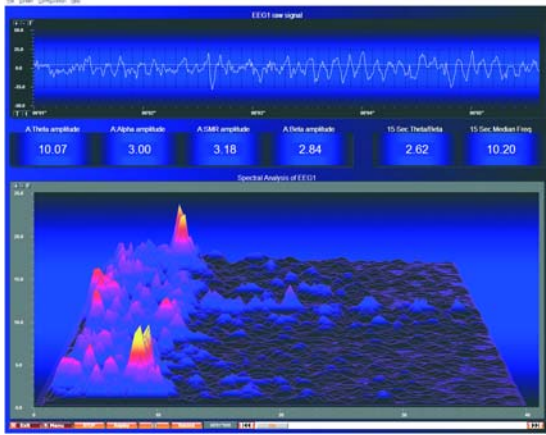
**SC/GSR sensor (incl. "fingerclips")**  
Article: NX-GSR-1A



**EEG reference cable**  
Article: NX-REF1A-RNG

# BioTrace Software

Flexible software support for the wireless NeXus-4 technology. Runs on your PC with Microsoft Windows XP or Vista



Our BioTrace Software provides a new experience of flexibility and elegance in physiological monitoring and biofeedback applications. It offers the optimal support for our new wireless **Nexus-4** system with its 24 bit resolution, high samplerates & built-in flash memory.

## Short Summary of Key Features:

- \* Easy to learn intuitive point and click interface.
- \* State of the art Multimedia Biofeedback with Direct-X graphics, 3D audio and DVD video. Real-time video and audio capture. Biofeedback/Neurofeedback computer games included.
- \* Fast and responsive virtual instruments with smooth Direct-X accelerated graphics. New instruments: spectrogram, 3D spectral arrays, water ripple instrument and multi-linegraphs. Improved session analysis & review mode.
- \* Switch on the fly between 1 to 12 active screens, instantly change feedback parameters, colors and digital filter settings. True dual monitor support! (for master and client screens)
- \* Easy client and session database, trend reporting functionality. Data export and printing functions.
- \* Comes complete with full HRV analysis, statistics, HRV training screens and HRV printed report.
- \* 80 virtual data channels in software with 64 bit floating point precision. Extensive library of data processing, digital filtering and statistical & mathematical functions. Channel sets can be edited and saved freely. Artifact rejection functions.

NeXus-4 features wireless physiological monitoring and feedback . Contact us for more information and pricing.  
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