

# NeXus-32

Meet the NeXus generation: **integrated QEEG, ERP, Neurofeedback & Biofeedback!**

## 32 Input Channels (multi-modal)

24 bit AD resolution, up to 2048 samples/sec. Carbon coated cables.  
Digital trigger input for ERP event synchronization.  
NeXus-32 and NeXus-16 are medical class IIa devices (CE0044)

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

## USB 2.0 Interface

offering a **real time** connection to your PC  
with fiber optics. (up to 10M)

## BlueTooth

Optional wireless Interface to your PC.



**Mind Media B.V.** is proud to introduce the NeXus-16 and NeXus-32. These are multi-modal Physiological Monitoring, QEEG and Feedback platforms that utilize USB 2.0, BlueTooth Wireless Communication and Flash Memory Technologies. Data acquisition is supported at up to 2048 samples per second. Advanced technology preamps use independent 24 bit AD convertors per channel with DC coupled amplifiers allowing for DC to 800Hz. Slow Cortical Potentials and ERP are supported. Because this system uses carbon coated cables with active shielding, movement artifact and 50/60 Hz noise levels are very low by design!

### Specifications: (standard configuration of NeXus-32)

24 EEG channels	2048 Samples/sec	24 bit ADC output	DC-800 Hz
4 EXG channels	2048 Samples/sec	24 bit ADC output	DC-800 Hz
4 AUX channels	128 Samples/sec	24 bit ADC output	DC-50 Hz

### A wide range of sensors is available:

Sensors: uni-polar EEG and SCP. (carbon coated cables, active shielding)
Sensors: EMG, ECG, EOG or bi-polar EEG/SCP. (any combination)
Sensors: RSP, BVP, HRV, SC/EDR, Temperature, Force, and Nonin Oximetry

#### BVP finger sensor

Article: NX32-BVP1A  
HRV and Bloodflow



#### RSP sensor (respiration)

Article: NX32-RSP1A  
High resolution



#### Temperatur sensor (skin)

Article: NX32-TMP1A  
High resolution



#### SC/GSR sensor (incl. "fingerclips")

Article: NX32-GSR1A  
High resolution



#### Oximetry sensor (Nonin)

Article: NX-SPO2  
contact us for pricing



#### Bipolar EMG/EKG/EOG cable

Article: NX32-EXG-Bi-Snap  
Multimodal bi-polar cable



#### EMG/EKG reference cable

Article: NX-REF1-Snap  
Uni-polar snapon cable



#### EEG Ring electrode Set (sint. Ag/AgCl)

Article: NX-Ring-Set (25 pcs)  
Carbon coated shielded uni-polar cables



#### EasyCap electrode Cap (10-20 system)

Article: EasyCap-XX (36-62cm)  
(requires ring electrodes)



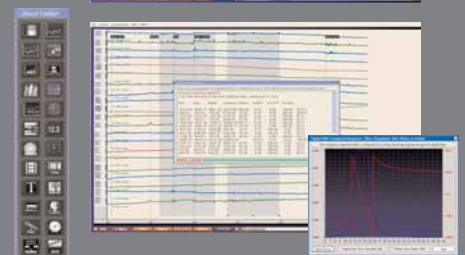
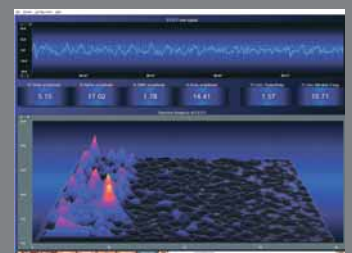
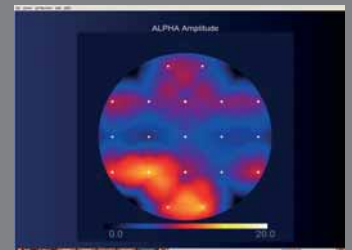
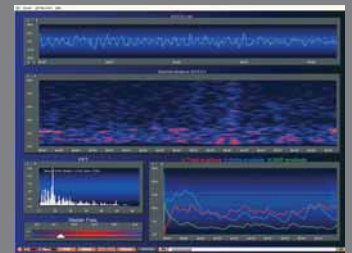
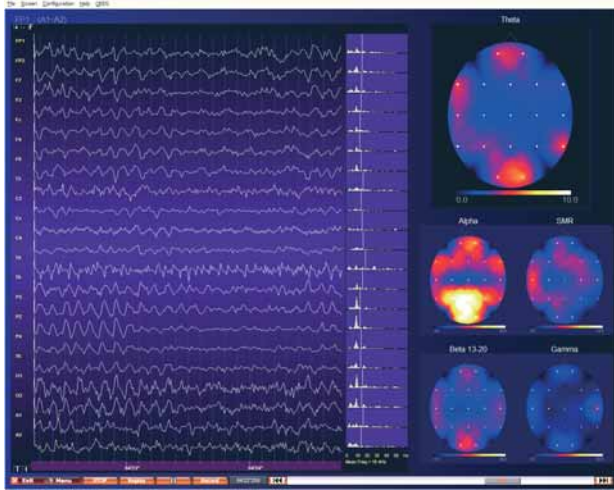
#### NeXus-10 to 32 Adapter Cable

Article: NX32-Adaptor1  
(for using NeXus-10 sensors)



# BioTrace+

Software for NeXus-10, NeXus-16 & NeXus-32. Runs on your PC with Microsoft XP or Vista.



Our BioTrace+ Software for [NeXus-16](#) and [NeXus-32](#) provides **new dimensions** of flexibility in multi-modal, multi-channel physiological monitoring and feedback. Up to 2048 samples/sec. on 16-32 inputs.

## Short Summary of Key Features:

- \* Integrates QEEG data acquisition with full Neurofeedback and multi-modal Biofeedback functionality.
- \* Includes support for visual and auditory ERPs (event related potentials) Oddball and single-stimulus paradigm (P300)
- \* Real-time topographic Neuromapping with programmable frequency bands and parameters.
- \* Data export to several standard QEEG database formats. Support for binary and ASCII formats including EDF.
- \* Manual and automatic artifact rejection.
- \* Multimedia Neurofeedback and Biofeedback with Direct-X graphics, 3D audio and DVD video. Real-time video capture synchronized with physiological data recording and review.
- \* Fast and responsive virtual instruments with smooth Direct-X accelerated graphics. Fully functional built-in screen editor.
- \* Switch on the fly between 1 to 12 active screens, instantly change feedback parameters and digital filter settings. True dual monitor support in high resolution.
- \* Programmable data channels, on the fly remontaging and configurable data processing and statistics.

Please contact us for pricing information or questions about Applications, Trainings and Workshops

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