

Features and benefits NeXus-32



For more information please visit www.mindmedia.nl or contact us at 0031-(0)475-410123 or sales@mindmedia.nl

Features NeXus-32

Benefits NeXus-32

Multi-modal inputs: EEG, EMG, ECG/EKG, EOG, skin conductance, temperature, blood volume pulse, respiration, oximetry, etc

You can measure all these parameters simultaneously! Depending on the configuration you choose: 24-32 channels of EEG, 4 EXG channels, 3 channels for peripheral parameters such as skin conductance, temperature, blood volume pulse, respiration. One oximetry input and one trigger input. The NeXus-32 can even be custom configured.

Bluetooth wireless up to 10 meter

Battery powered, giving a total freedom of movement. Client isn't limited by any cables and is totally free in his/her movement. Alternatively 10 meter fiber wire can be used.

Electrode contact check (impedance)

Checking electrode contact/connection **online**. You are certain of a reliable measurement throughout the whole session. Checking contact during a session, without stopping, increasing your efficiency.

Flash card (SD card) up to 2 Gb

Ambulant recording without having to be in the vicinity of a PC or laptop. Continuous measurements during daily (sport) activities (up to 24 hours).

Dimensions/Weight: 15,8cm x 11,2cm x 7,3cm / 770 gram
6,16" x 4,37" x 2,07"/27,16 oz.

Small and light, making the NeXus-32 extremely portable in his kind.

24 bits resolution/accuracy

Accurate measurements in a wide range. Very small signal changes can be measured, relevant to temperature, skin conductance, blood volume pulse and muscle activity. Fluent visualisation of very small changes in signals. Note: the higher the bit resolution, the more accurate your signals/graphs will be.

Samplerate: 2048 Hz (in EXG channels)

Ability to measure up to 800 Hz in up to 32 channels simultaneously. Measurements of SCP (low Hz) until high-frequent muscle measurements (EMG) are possible.

Trigger input

Very precise synchronization of ERP/VEP triggers. Used in combination with the NeXus trigger interface box or with a RS232 cable to connect to E-prime or Presentation. Link other devices to the NeXus for synchronization.

Medical class IIA/FDA 510K approved	Certified for use in hospitals, guaranteed safety.
Leather carrying case with carrying belt	Protective leather case. Easily take the NeXus with you.
<u>Features Sensors</u>	<u>Benefits Sensors</u>
Active noise cancellation technology (active shielding) Carbon coated cables	Elimination of movement artifacts and noise. Only measure what you would like to measure, without noise!
High grade aluminium brushed connectors	
<u>Features BioTrace+</u>	<u>Benefits BioTrace+</u>
Flexibility	Change screens to your own desires/wishes, even online or during replay. Change colours, texts or even develop your complete own screens on the fly.
Point, click & go! (Sensor demo protocols)	Get's you up and going with NeXus very fast and easy.
Lots of screens	BioTrace+ already offers a vast amount of screen categories and screens, for both client and therapist; EEG, EMG, respiration, heart rate variability, skin temperature, demo screens, skin conductance, skin temperature, multi-modality screens, etc!
True dual screen - therapist and client screen	Both therapist and client can use their own screen. Based on statistics on the therapist screen, you can change settings, animations and graphs shown to the client.
Reports	Easy and fast visualisation of raw as well as computed signals in graphs, bargraphs, numerical values, etc. Create unique (trend) reports for each patient
Content: movies, animations, pictures, dvd's, games, etc	Training is made very attractive with lots of movies, animations, pictures, puzzles and games already present in BioTrace+. Extra movies, pictures, games, etc. can even be added! Very attractive, also for kids.
Data export (ASCII (tab and comma delimited), EDF(+), Matlab)	Easily export data in to different formats for advanced data analysis. Compatible with all kinds of programs such as Excel, Matlab. Fully compatible with QEEG databases such as SKIL, SKIL 3.0, Neuroguide, Eureka/Loreta.
Configurable filters and channels	Pure raw data is measured! Further computations are done by the software. Filter settings are not dependent on the sensors, you are offered full flexibility in doing computations online or offline with BioTrace+
Real-time screen vs overview screen	Easily switch between the real-time screen and the overview screen by pressing one button. Edit your screens online .

Scripts and protocols	Make your own sequence of screens with an easy to use sequence builder. Link screens together and let BioTrace+ do the rest.
Creating content	Add your own movies, music, games, puzzles, etc!
Event related potential (ERP)/VEP	Easily conduct ERP/VEP experiments with a easy and fast presentation builder and analyse with the click of one button
Z-score	Training with z-scores supplies you with a fast view of extreme values and an easy way to train.
Heart Rate Variability (HRV)	Train your heart rate heart rate variability, coherence and low frequency zone with numerous screens! A pacer aids you in your breathing pattern and helps in optimizing heart rate variability.
Brainmapping/Neuromapping	Look at afrequencies in 2d or even 3d respresentations of the head.
EEG Montages	Choose between all kinds of montages: common average, Cz reference, A1 reference,
Export EEG	Export EEG to e.g. Loreta/Eureka, Skil, Skil 3.0 and Neuroguide.
Share screens	Easily share your own developed screens with others.
Free updates!	Future updates can be downloaded free of charge. BioTrace+ includes all the above features and is not built up in modules
And much more! For more information, please contact us!	
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