

simplify neonatal care





The first aEEG monitoring solution optimized for every care-taker in the NICU.



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nëo is the easiest-to-use solution for aEEG and EEG monitoring of the smallest and most fragile patients. nëo simplifies the workflow, from electrode application, event annotation, aEEG review to data export. It optimally integrates into the already busy NICU routine, and allows for both aEEG and EEG monitoring for all pathological term and preterm babies. With up to 8 channels, nëo can record rich data in the background for pediatric neurologists, while 2 channels aEEG are shown for routine monitoring. This allows experts to review valuable information whenever needed, without waiting for additional recordings during the critical phases.

Double value

With 8-channel Continuous EEG, **n**ëo provides diagnostics value to (pediatric) neurologists and an extended coverage for better seizure detection. The view can be easily adapted with a swipe of the finger, to display only the information most relevant to the respective clinician.



Diagnostics support

Graphical indicators for Inter-Burst-Interval (IBI) and Burst Suppression Ration (BSR) quantify burst suppression patterns and help the bedside personnel to make informed decisions about interventions, such as for seizure and hypothermia (HIE). The IBI indicator quantifies the duration between bursts and can be used to help assess the severity of HIE. The BSR indicator represents the fraction of time the brain has spent in suppression and is highly predictive of adverse outcomes following hypoxic-ischemic injury.



Simplify routine application for greater patient coverage

Non-convulsive seizure can occur with pre-term babies and may damage brain function and delay brain development if not treated on time. By simplifying the electrode application and the software interface, and by reducing the complexity of neonatal monitoring, aEEG monitoring can be applied on more preterm and pathological term babies. The greater patient coverage means better diagnosis and treatment for babies that might otherwise develop pathologies with negative outcomes.

nëo maximizes the efficiency in the CFM routine and helps to monitor all pathological term and preterm babies.

Simplify expert communication for greater care

nëo is optimized for every care-taker in the NICU. The interface is designed to seamlessly integrate into the NICU by providing the right functionality depending on who is currently using the device. While 2 channels aEEG is shown to bed-side staff and neonatologists during monitoring, up to 8 channels of referential EEG can be reviewed by neonatologists and neurologists for differential diagnostics. Data can easily be exported into standard EEG formats at any time for advanced analysis.

With **n**ëo, it is easier than ever before to bring in expert opinion in critical clinical cases.

A platform to grow together

nëo utilizes the most advanced hardware and software concepts available in the market. We use high performance medical computer systems and high-end EEG amplifiers/sensors. nëo is a system designed to be ready for the future. Our nëo monitor software is developed with pioneering neonatologists in the field and our network of experts will allow nëo to continue to grow in the years to come.

nëo is a platform which will ensure NICU care-takers deliver the best care for decades to come.



The user interface

is clean and simple, to allow most efficient control of care.



The software monitoring workflow

provides step-by-step guidance.



Only 2 clicks

to start monitoring.



Access to caps

With actively shielded **wave**guard EEG caps, the application of electrodes has never been easier. It saves valuable time and resource and enables application of more electrodes without extra effort.



Access to single lead electrodes nëo allows you to monitor with your familiar routine, providing compatibility to gold cup or subcutanouse needle electrodes.



Research grade amplifier Research grade EEG amplifier with high input impedance for best signal quality.

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Easy interpretation for every NICU professional

nëo for clinical use of aEEG monitoring

- Simultaneous recording of aEEG and continuous EEG
- Online Burst Suppression Ratio and Inter Burst Interval display
- Up to 8 referential channels EEG with caps
- Quick start of monitoring and data sharing
- Ready inspection of recorded data via online/offline review
- Easy exporting and sharing of data and screenshots at any time
- Quick access to pre-defined and custom annotations
- in both recording/review modes

- Monitor background aEEG patterns
- Detection of subclinical / non-convulsive seizures
- Evaluate brain maturity and recovery
- Monitor the effects and efficiency of anti-convulsive drugs
- Screen patients for neuroprotective interventions
- Predict neurodevelopmental outcome following perinatal HIE or surgery
- Assess sleep-wake cycling

Technical specifications

Touch screen monitor				
Weight	4.5 kg			
Screen size	15", 16:9 Ratio			
Dimensions	385 x 290 x 45 mm			
Resolution	1920 x 1080 Pixel Full-HD			
Mount	Integrated VESA-100 interface			

Data Acquisition				
Bipolar channels	6			
Referential channels	Max. 8			
Max. Sampling Rate	512 Hz			
Resolution	24 bit			
Input impedance	>1 GΩ			
Shielding	Actively shielded inputs			
Amplifier size	86 x 100 x 16 mm			
Input signal range	150 – 1000 mV _{pp}			

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HD monitor

15" touchscreen monitor visualizes aEEG patterns accurately with great detail

Integrated power supply

Cabling and medical power supply integrated into the device for easier cable management

Designed for NICU

Sturdy and sleek, mobile, minimal cabling, great to use with other modalities (e.g. ECG, Ultrasound imaging, fNIRS while aEEG monitoring), and hardware-side noise reduction

Optimized for servicing and maintenance

Open amplifier integration for easy servicing and maintenance

Flexible mounting

Mount on medical cart, wall/ceiling, or bedside table to save valuable space in NICU

Software					
Operation System	Windows 10 (64bit)				
Monitoring features	Real-time EEG aEEG (computed) Continuous Burst-Suppression-Ratio (BSR) Continuous Inter-Burst-Interval (IBI) Impedance Measurement Event-Markers Online-Review mode				

Hardware				
Processor	Intel Core™ i5			
Working Memory	8 GB			
Connectivity	1x USB 3.0			
Storage	mSATA 250GB SSD			
Graphics	Intel® HD Graphics GT-Series			
Power supply Unit	Integrated power supply (100-240V)			

Product range

Code	nëo™			
ES-820	1x n ëo monitor software 1x FF-411 eego mini amplifier			
	1x n ëo all-in-one pc			
	1x n ëo cover plate 1x User manual			
	1x Safety instructions			
Code	Compatible accessories			
XC-810	Break-out adapter with touch proof sockets			
XC-820	Medical cart (Vesa compatible)			
XC-821.R	Medical monitor arm for wall norm rails (Vesa corr	npatible)		
XC-821.P	Medical monitor arm for poles (Vesa compatible)			
XC-822	Medical table stand (Vesa compatible)			
Code	Electrodes (in different colors)			
XE-382	Single lead cup electrode Au plated with touch pro	oof connector		
XE-385.C	Single lead ring electrode Ag/AgCl with touch pro	oof connector		
XE-386	Subcutaneous steel needle electrodes			
XE-165	Hydrogel Pads			
Code	Neonatal EEG caps (in different sizes)	s1=01 (25-27cm), 02 (2	27-29cm), 03 (29-31cm), 04 (31-33), 05 (33-36), 06 (36-39))
CA-420.s1	EEG cap, 2 electrodes plus GND and REF, P3, F	P4, shielded, HD-C50p	pin connector	
CA-421.s1	EEG cap, 4 electrodes plus GND and REF, C3, C	C4, P3, P4, shielded, I	HD-C50pin connector	
CA-422.s1	EEG cap, 8 electrodes plus GND and REF, F3, F	-4, C3, C4, P3, P4, 17	, 18, shielded, HD-C50pin connector	
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VE 150				
XE-153	OneStep Cleargel 1000g			
XE-155				
XE-157	OneStep Cleargel 120g			
XE-158	Ten20 conductive paste 114g			
XE-377	Blunt syringe needles			
XE-011	Single use syringe 10 ml			
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nëo™ is CE marked as 93/42/EEC, class IIa, w	a medical device in the EU, according to MDD raveguard™ caps are CE marked as medical		Your local distributor:	
device in the EU, accor	ding to MDD 93/42/EEC, class I. Manufactured by			
certified. ANT Neuro an	d eemagine are part of the neuromotion group.			
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uerno? Please contact	us via e-mail and we il come back to you.			
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