

OctaMon

One-of-a-kind
8-channel and truly
portable NIRS device



Main applications are found in:

- Brain oxygenation monitoring
- Pediatric studies
- Sports science
- Functional studies
- Cerebral studies



8-channels, truly portable



Measures oxy-, deoxy-, and total hemoglobin concentration changes.



Can easily be combined with other techniques such as EEG and EMG.



Utilising the non-invasive NIRS technique.



Bluetooth connection



Analyse your data with our superior analysis software; Oxysoft.

Interested?

contact us at:

askforinfo@artinis.com

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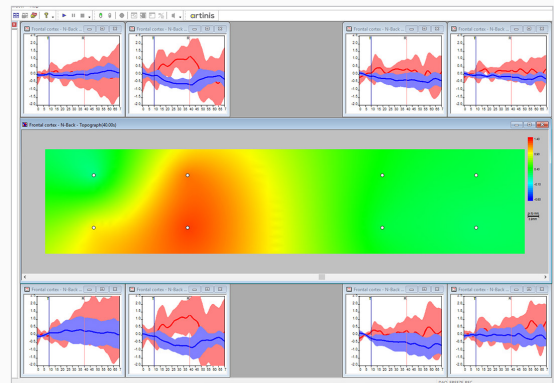
References to wireless NIRS

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- Dascombe et al. No effect of upper body compression garments in elite flat-water kayakers. *European Journal of Sport Science* 2011, 1-9
- Hesford et al. Asymmetry of Quadriceps Muscle Oxygenation during Elite Short-Track Speed Skating. *Med Sci Sports Exerc.* 2012 Mar; 44(3):501-8.
- Hesford C et al. NIRS Measurements with Elite Speed Skaters: Comparison Between the Ice Rink and the Laboratory. *Adv Exp Med Biol.* 2013; 765:81-6.
- Kenjale et al. Dietary nitrate supplementation enhances exercise performance in peripheral arterial disease. *J Appl Physiol.* 2011 Jun; 110(6):1582-91.
- Rittweger et al. Muscle tissue oxygenation and VEGF in VO₂-matched vibration and squatting exercise. *Clin Physiol Funct Imaging.* 2010 Jul; 30(4): 269-279.
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Technical Specifications

TECHNOLOGY	Continuous wave near infrared spectroscopy using modified Lambert-Beer law
MEASURES	Oxy-deoxy and total hemoglobin
INDICATIONS	Battery status, Bluetooth connection
DATA ANALYSIS SOFTWARE	Oxysoft
OPERATING SYSTEM	Windows 7,8,10
LIGHT SOURCE	Light emitting diodes: 8x2 wavelengths
CHANNELS	8 channels
WAVELENGTHS	Standard nominal 760 and 850 nm, others possible.
DETECTORS	Photo diode with ambient light protection.
OPTODE DISTANCE	35 mm
POWER	Up to 6 hours with one interchangeable and rechargeable battery.
TOTAL WEIGHT	230 grams including battery.
SIZE	Battery housing: 84x54x20 mm, wire: 1.3 m headbands available in multiple sizes: XS: (OctaMon Mini) 48-50 cm S: 52 cm M: 56 cm L: 60 cm
ENVIRONMENT	Operating temperature: ~ 10-35 °C
INTERFERENCE	No interference with EEG, ECG or EMG.
OPTIONAL	All devices can be combined with the Portasync.
NOISE	~ 0.001 standard deviation in optical density at a total of ~6 optical densities at a measurement frequency of 10 hz.
ACCESSORIES	The OctaMon can be combined with the Portasync.
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NIRS + OTHER MODALITIES	We deliver the following packages: OctaMon + TMSI EMG package (2 channels or more). OctaMon + TMSI EEG package (16 channels or more). OctaMon + Tobii eyetracker.



Applications of the OctaMon

Quotation?

contact us at:

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OctaMon research package

What's in the box?

- 1x OctaMon
- 1x strong and sturdy Pelicase
- 1x License key
- 1x Bluetooth dongle
- Oxysoft, data analysis software

- Batteries and charger
- Neoprene headband
- Dark cloth
- Laptop
- User Guide