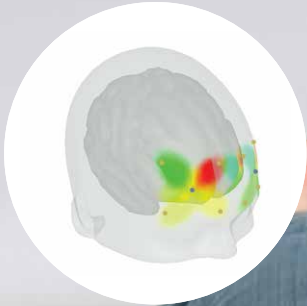


OctaMon mini

One-of-a-kind completely wearable 8 channel fNIRS



Main applications are found in:

- Brain oxygenation monitoring
- Sports science
- Functional studies
- Cerebral studies
- Hyperscanning
- Both inside and outside the lab



8-channels and truly portable.



Utilizing the non-invasive NIRS technique.



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



The OctaMon mini is especially designed for pediatric studies.



Easy data analysis with our superior analysis software OxySoft, or OxyLite app (available for Android).



Record offline, or record live using Bluetooth.

Interested?

Contact us at
askforinfo@artinis.com

www.artinis.com
+31 481 350 980

Einsteinweg 17
6662 PW Elst
The Netherlands

References to wireless NIRS

Buchheit, M., Bishop, D., Haydar, B., Nakamura, F. Y. & Ahmadi, S. Physiological Responses to Shuttle Repeated-Sprint Running. *Int. J. Sports Med.* 31, 402–409 (2010).

Buchheit, M., Ufland, P., Haydar, B., Laursen, P. B. & Ahmadi, S. Reproducibility and sensitivity of muscle reoxygenation and oxygen uptake recovery kinetics following running exercise in the field: Reproducibility and sensitivity of muscle reoxygenation. *Clin. Physiol. Funct. Imaging* 31, 337–346 (2011).

Dascombe, B., Laursen, P., Nosaka, K. & Polglaze, T. No effect of upper body compression garments in elite flat-water kayakers. *Eur. J. Sport Sci.* 13, 341–349 (2013).

Hesford, C., Cardinale, M., Laing, S. & Cooper, C. E. NIRS Measurements with Elite Speed Skaters: Comparison Between the Ice Rink and the Laboratory. in *Oxygen Transport to Tissue XXXIV* (eds. Welch, W. J., Palm, F., Bruley, D. F. & Harrison, D. K.) 765, 81–86 (Springer New York, 2013).

Hesford, C. M., Laing, S. J., Cardinale, M. & Cooper, C. E. Asymmetry of Quadriceps Muscle Oxygenation during Elite Short-Track Speed Skating: *Med. Sci. Sports Exerc.* 44, 501–508 (2012).

Kenjale, A. A. et al. Dietary nitrate supplementation enhances exercise performance in peripheral arterial disease. *J. Appl. Physiol.* 110, 1582–1591 (2011).

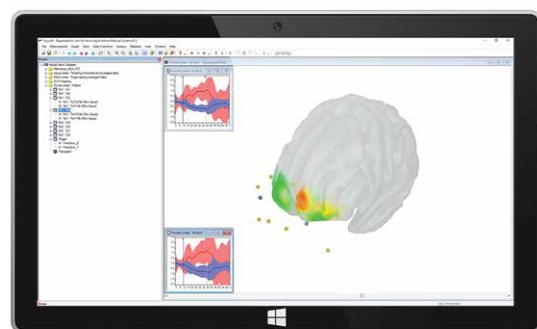
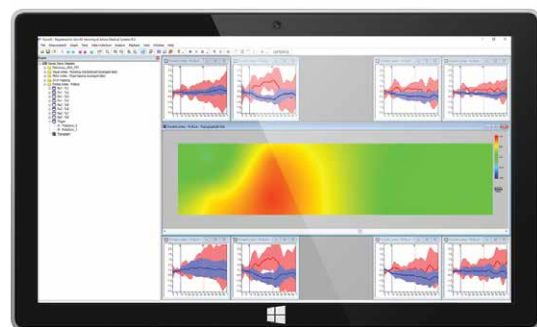
Rittweger, J., Moss, A. D., Colier, W., Stewart, C. & Degens, H. Muscle tissue oxygenation and VEGF in VO₂-matched vibration and squatting exercise: Muscle tissue oxygenation, VEGF and vibration. *Clin. Physiol. Funct. Imaging* 30, 269–278 (2010).

Shadgan, B., Reid, W. D., Gharakhanlou, R., Stothers, L. & Macnab, A. J. Wireless near-infrared spectroscopy of skeletal muscle oxygenation and hemodynamics during exercise and ischemia. *Spectroscopy* 23, 233–241 (2009).



Technical specifications

TECHNOLOGY	Continuous wave near infrared spectroscopy using the modified Lambert-Beer law
MEASURES	Oxy-, deoxy-, and total hemoglobin
DATA ANALYSIS SOFTWARE	OxySoft
OPERATING SYSTEM	Windows 10
LIGHT SOURCES	Light emitting diodes: 8 x 2 wavelengths
WAVELENGTHS	Standard nominal 760 and 850 nm, others possible
CHANNELS	8 channels
INDICATIONS	Battery status, Bluetooth connection
DETECTORS	Photodiode with proprietary ambient light protection
OPTODE DISTANCE	26 mm
POWER	Up to 8 hours with one interchangeable and rechargeable battery
TOTAL WEIGHT	210 grams including battery
SIZE	Battery housing: 84 x 54 x 20 mm, wire: 1.3 m, headbands available in multiple sizes: XS 48-50 cm, S 52 cm. For other sizes please contact us.
SAMPLE RATE	50 Hz
ENVIRONMENT	Operating temperature: 10-35 °C
ELECTROMAGNETIC COMPATIBILITY	No interference with EEG, ECG or EMG
OPTIONAL	Can be combined with the PortaSync
NIRS + OTHER MODALITIES	We deliver the following packages: OctaMon mini & TMSi EMG package (2 channels or more) OctaMon mini & TMSi EEG package (16 channels or more)



Get a quote:

askforinfo@artinis.com

What's in the box?

OctaMon mini research package

OctaMon mini
Strong & sturdy Pelicase
License key

2 Batteries & charger
Laptop
User guide

Bluetooth dongle
OxySoft data analysis software
Neoprene headband