

# OctaMon+

One-of-a-kind  
wearable &  
customisable  
8-channel fNIRS

The OctaMon+ opens the possibility to measure at any position on the scalp. We have developed interchangeable high-power and lower-power optodes with our own 3-step mechanism that enables you to easily select the pressure load on the optode. This has a clear advantage over spring-loaded systems with a fixed and often too tense load. This system also allows you to easily part the hair beneath the optode. As a rule of thumb, you can use high-power optodes on any template covered by hair, and low-power optodes on hairless areas. This way, we created the perfect and portable 8-channel system capable of measuring from prefrontal lobe to occipital lobe with the highest possible signal quality.



8-channels and truly portable.



Utilizing the non-invasive NIRS technique.



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



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



Easy data analysis with our superior analysis software OxySoft.

## Interested?

Contact us at  
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# Main applications

Brain oxygenation monitoring, sports science, functional studies, cerebral studies, hyperscanning (up to 4 devices) - both inside and outside the lab.

## References to wireless NIRS

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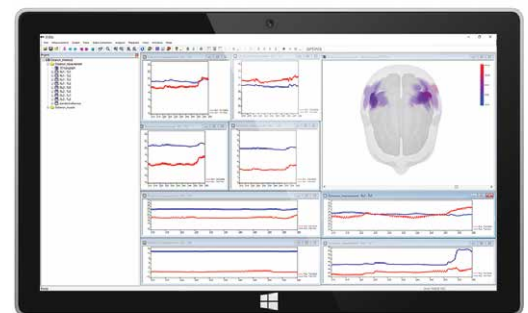
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## Technical specifications

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	30 - 35 mm
POWER	3 to 11 hours with one interchangeable and rechargeable battery
TOTAL WEIGHT	260 grams including battery
SIZE	Battery housing: 84 x 54 x 42 mm, wire: 1.3 m headcaps available in multiple sizes
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
INDICATIONS	Battery status, Bluetooth connection
NIRS + OTHER MODALITIES	We deliver the following packages: OctaMon+ and TMSI EMG package (2 channels or more) OctaMon+ and TMSI EEG package (16 channels or more)



### Get a quote:

[askforinfo@artinis.com](mailto:askforinfo@artinis.com)

### What's in the box?

OctaMon+ research package

OctaMon+  
Strong & sturdy Pelicase  
License key

2 Batteries & charger  
Laptop  
User guide

Bluetooth dongle  
OxySoft data analysis software  
Neoprene headcap