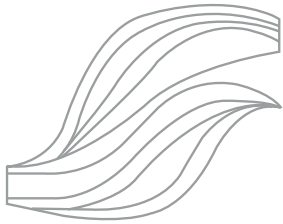


# PortaMon

A wireless NIRS device, especially designed for muscle oxygenation measurement.



## Main applications are found in:

- Sports science
- Rehabilitation
- Mitochondrial capacity
- Urology research



One channel to measure absolute oxygenated hemoglobin percentage, three channels to measure relative concentrations.



Combine multiple Portamons (or Portalites) at the same time, on the muscle tissue of your interests.



Utilising the non-invasive NIRS technique.



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



Measure oxy-, deoxy-, total hemoglobin concentration changes, and tissue saturation index (TSI).



Perform real-time measurements using Bluetooth or offline measurements using the on-board data collection.

## Interested?

Contact us at  
[askforinfo@artinis.com](mailto:askforinfo@artinis.com)

[www.artinis.com](http://www.artinis.com)  
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# References to wireless NIRS

*Buchheit et al. Physiological responses to shuttle repeated-sprint running. Int J Sports Med. 2010 Jun; 31(6):402-9.*

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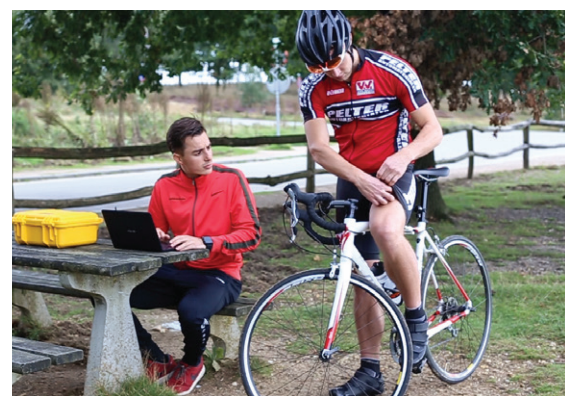
*Rittweger et al. Muscle tissue oxygenation and VEGF in VO2-matched vibration and squatting exercise. Clin Physiol Funct Imaging. 2010 Jul; 30(4): 269-279.*

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## Technical specifications

TECHNOLOGY	Continuous wave near infrared spectroscopy using modified Lambert-Beer law
MEASURES	Oxy-, deoxy-, total hemoglobin, and tissue saturation index (TSI)
DATA ANALYSIS SOFTWARE	Oxysoft
OPERATING SYSTEM	Windows 10
LIGHT SOURCE	Light emitting diodes: 3x2 wavelengths
CHANNELS	1 channel to measure absolute oxygenated hemoglobin percentage, 3 channels to measure relative concentrations
EVENTS	Insert online and offline events
WAVELENGTHS	Standard nominal 760 and 850 nm, others possible
DETECTORS	Photodiode with ambient light protection
OPTODE DISTANCE	Three distances use between receiver and transmitters: 30, 35, and 40 mm
POWER	Rechargeable and fast loading battery, up to 3 hours on a single charge.
TOTAL WEIGHT	75 grams including battery
SIZE	W x D x H: 83.8 x 42.9 x 17.2 mm
ENVIRONMENT	Operating temperature: ~ 10-35 °c
SAMPLE RATE	Up to 10 Hz
OPTIONAL	Incorporated 3D accelerometer
INTERFERENCE	No interference with EEG, ECG OR EMG
ACCESSORIES	All devices can be combined with the Portasync.



### Get a quote:

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

### What's in the box?

PortaMon research package

PortaMon  
Strong and sturdy Pelicase  
2x Batteries

Battery charger  
Laptop  
User guide

Bluetooth dongle & license key  
Oxysoft, data analysis software  
Strickers & bandages