

# PortaLite

A portable cerebral oxygenation monitoring device



## Main applications are found in:

- Brain oxygenation monitoring
- High altitude research
- Rehabilitation
- Sports science
- Functional studies
- Cerebral studies



Uses the non-invasive NIRS technique.



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



1 channel to measure absolute oxygenated hemoglobin percentage, 3 channels to measure relative concentrations.



Measures local tissue saturation (TSI), as well as oxy-, deoxy- and total hemoglobin.



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



Real-time measurements using Bluetooth or offline measurements using the onboard data collection.

## Interested?

Contact us at  
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# References to wireless NIRS

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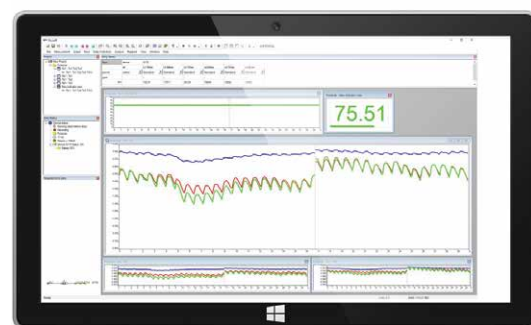
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## Technical specifications

TECHNOLOGY	Continuous wave near-infrared spectroscopy using the modified Lambert-Beer law
MEASURES	Oxy-, deoxy-, total hemoglobin, and tissue saturation index (TSI)
DATA ANALYSIS SOFTWARE	OxySoft
OPERATING SYSTEM	Windows 10
LIGHT SOURCE	Light emitting diodes: 3 x 2 wavelengths
CHANNELS	1 channel to measure tissue saturation percentage, 3 channels to measure relative concentrations
EVENTS	Insert events online and offline
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	Fast charging battery that lasts up to 8 hours on a single charge. Upgradable up to 16 hours
TOTAL WEIGHT	88 grams including battery
SIZE	Battery housing: 84 x 54 x 20mm, wire: 1.3m, probe: 58 x 28 x 6mm
ENVIRONMENT	Operating temperature: 10 - 35 °C
SAMPLE RATE	Up to 50 Hz
ELECTROMAGNETIC COMPATIBILITY	No interference with EEG, ECG or EMG
ACCESSORIES	Can be combined with the PortaSync
NIRS + OTHER MODALITIES	We deliver the following packages: PortaLite + TMSI EMG package (2 channels or more) PortaLite + TMSI EEG package (16 channels or more) PortaLite + Tobii eyetracker

### Get a quote:

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

### What's in the box?

PortaLite research package

PortaLite  
Strong & sturdy Pelicase  
License key

2 Batteries & a charger  
Laptop  
User guide

Bluetooth dongle  
Oxysoft, data analysis software  
Stickers & dark cloth/bandana