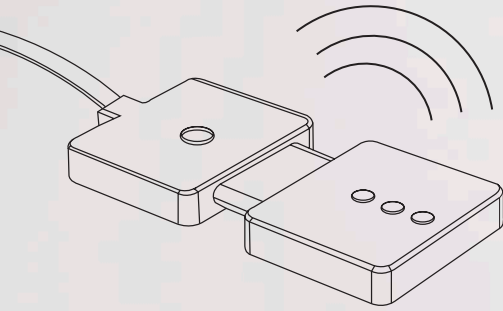


# PortaLite

A portable cerebral oxygenation monitoring device.



## Main applications are found in:

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



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



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



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



Utilising the non-invasive near infrared spectroscopy technique.



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



Analyse your data with our superior analysis software; Oxysoft.

## Interested?

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## References to wireless NIRS

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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.
INDICATIONS	Battery status, Bluetooth connection
SOFTWARE	Data analysis software; Oxysoft
OPERATING SYSTEM	Windows 7, 8, 10
LIGHT SOURCE	Light emitting diodes: 3x2 wavelengths
CHANNELS	1 channel to measure absolute oxygenated hemoglobin percentage, 3 channels to measure relative concentrations.
WAVELENGTHS	Standard nominal 760 and 850 nm, others possible.
EVENTS	Insert online and offline events.
DETECTORS	Photo diode with ambient light protection.
OPTODE DISTANCE	Three distances are used between receiver and transmitters: 30, 35 and 40 mm.
POWER	Up to 8 hours with one interchangeable and rechargeable battery - upgradable up to 16 hours.
TOTAL WEIGHT	88 grams including battery.
SIZE	Battery housing: 84 x 54 x 20 mm, Wire: 1.3 m, Probe: 58 x 28 x 6 mm.
ENVIRONMENT	Operating temperature: ~ 10-35 °c
INTERFERENCE	No interference with eeg, ecg or emg.
ACCESSORIES	The PortaLite can be combined with the PortaSync.
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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.



Applications of the PortaLite

**Quotation?**  
contact us at:  
askforinfo@artinis.com

PortaLite research package  
**What's in the box?**

1x PortaLite  
1x strong and sturdy (micro) Pelicase  
1x License key  
1x Bluetooth dongle  
Oxysoft, data analysis software

Batteries and charger  
Stickers and bandages  
Dark cloth/bandana  
Optional laptop  
User Guide