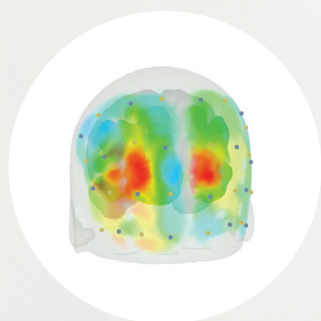


OxyMon

A user-friendly, flexible and very versatile NIRS system



Main applications are found in:

- fNIRS
- Hyperscanning
- Brain oxygenation monitoring
- Brain computer interface (BCI)



Up to a 108 channel system.



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



Can easily be combined with other techniques such as EEG, EMG, fMRI, TDCS and TMS.



We offer a great variety of customer specific optode holders, headcaps and fibers.



Utilising the non-invasive NIRS technique.



Analyse your data with our superior (3D) analysis software; Oxysoft.

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References to NIRS technology

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Technical specifications

TECHNOLOGY	Continuous wave near infrared spectroscopy using modified Lambert-Beer law
MEASURES	Changes in oxy-deoxyhemoglobin and optionally regional tissue saturation index (tsi) using spatially resolved spectroscopy.
INDICATIONS	Battery status, Bluetooth connection
DATA ANALYSIS SOFTWARE	Oxysoft, 3D extension available
OPERATING SYSTEM	Windows 7,8,10
LIGHT SOURCE(S)	Temperature stabilized pulsed laser sources (class I according to iec-60825-1, safety of lasers)
OPTODE HOLDERS	Multiple distances for muscle or head possible, multichannel generally customer specific.
OPTODE DISTANCE	Depending on application. frontal head up to 6 cm possible with arterial pulsation still visible. For fNIRS 3-4cm is recommended.
ENVIRONMENT	Operating temperature ~10-27 °c. both source and Detector stabilized. Altitude: 0-5750 m.
DIMENSIONS	Weight: 7 to 8 kg, wxdxh: 37x30x9 cm
DETECTORS	Photo diode with ambient light protection.
CHANNELS	Between 1 and 108.
STORAGE	Real-time unlimited data storage.
EXTERNAL INPUTS	Optional are 8 additional analog inputs at 50 hz (250 hz optional), ± 4 volt.
STORAGE	Real-time, unlimited data storage.
DETECTORS	Temperature stabilized and cooled avalanche photo diodes with ambient light protection.
WAVELENGTHS	Standard nominal 765 and 855 nm, other possible.
INTERFERENCE	With nmr compatible fibers the instrument can be used inside the MRI. EEG/ECG does not interfere the optical signal.
POWER	Auto sensing: 110-240 v, approx. 40 watt.
ACCESSORIES	The OxyMon can be combined with: - AD Input/output box, AD board - Portasync - Parellelsync cable - Oxysoft 3D extension
NIRS + OTHER MODALITIES	OxyMon + TMSI EMG package (2 channels or more). OxyMon + TMSI EEG package

Get a quote

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OxyMon research package

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The OxyMon
Fibers of your choice
Headcap or holders of your choice
1x License key

Oxysoft, data analysis software
User Guide
Laptop with pre-installed software
Support in setting up your research