

Brite

Completely wearable
multi-channel fNIRS
device



Truly portable and covering e.g. the prefrontal cortex, motor cortex, or visual cortex.



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



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



Integrated 9-axis orientation sensor.



Easy analysis of your data with our superior analysis software; OxySoft.



Online connection via Bluetooth or offline recording with high sampling rate.

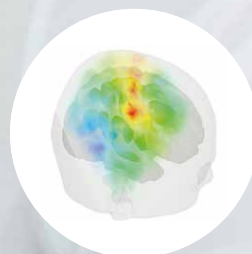
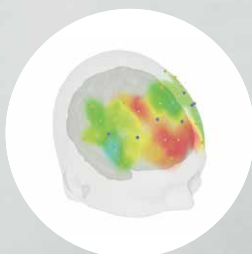


The Brite 23 is optimized for frontal cortex and Brite 24 is optimized for hair-covered area.



Main applications are found in:

- Brain oxygenation monitoring
- Sports science
- Functional studies
- Cerebral studies
- Hyperscanning



Interested?

Contact us at
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References to wireless fNIRS

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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 SOURCE	10 or 11 light emitting diodes, each with 2 wavelengths
CHANNELS	23, 24, or up to 54 channels with dual Brite. Different setup's and short channels possible
WAVELENGTHS	Standard nominal 760 and 850 nm, others possible
DETECTORS	7x or 8x photodiodes with ambient light protection
OPTODE DISTANCE	30 mm
POWER	Fast charging battery that lasts up to 3 hours on a single charge. Charging with powerbank possible.
TOTAL WEIGHT	Approximately 300 grams including battery
SIZE	Battery housing: 75x75x30 mm. Headbands and head caps available in multiple sizes: kids version (3months - 6 years) and adults (XS - XL)
ENVIRONMENT	Operating temperature: 10 - 35 °C
ELECTROMAGNETIC COMPATIBILITY	No interference with EEG, ECG or EMG
OPTIONAL	Can be combined with the PortaSync
OFFLINE DATA STORAGE	100+ hours
RESOLUTION	16 bit
SAMPLE RATE	50 or 100 Hz
ORIENTATION SENSOR	9-axis accelerometer
NIRS + OTHER MODALITIES	We deliver the following packages: Brite + TMSi EMG package (2 or more channels) Brite + TMSi EEG package (16 channels or more) Brite + tDCS (STARSTIM)

Get a quote:

askforinfo@artinis.com

What's in the box?

Brite research package

Brite 23 or 24
Strong & sturdy Pelicase
License key

Battery charger
Laptop
User guide

Bluetooth dongle
OxySoft, data analysis software
Neoprene headband/head cap