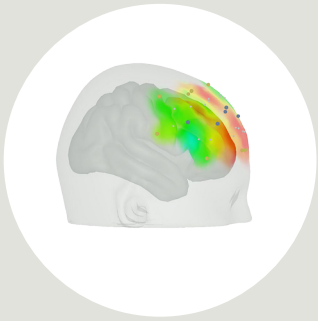


# Brite<sup>23</sup>

## Completely wearable 23 channel NIRS



### Main applications are found in:

- Brain oxygenation monitoring
- Sports science
- Functional studies
- Cerebral studies
- Hyperscanning
- Both inside and outside the lab



23 channels, truly portable and covering the whole prefrontal cortex.



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



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



Integrated 9-axis orientation sensor.



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



Bluetooth connection or offline recording.

### Interested?

contact us at:  
askforinfo@artinis.com

[www.artinis.com/brite23](http://www.artinis.com/brite23)  
t +31 481 350 980  
askforinfo@artinis.com

Einsteinweg 17  
6662PW  
Elst, The Netherlands



# References to wireless NIRS

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# Technical specifications

TECHNOLOGY	Continuous wave near infrared spectroscopy using modified Lambert-Beer law
MEASURES	Oxy-, deoxy-, and total hemoglobin
INDICATIONS	Battery status, Bluetooth connection
DATA ANALYSIS SOFTWARE	Oxysoft
OPERATING SYSTEM	Windows 7,8,10
LIGHT SOURCE	Light emitting diodes: 11x2 wavelengths
CHANNELS	23 channels
WAVELENGTHS	Standard nominal 760 and 850 nm, others possible
DETECTORS	Photo diode with ambient light protection.
OPTODE DISTANCE	35 mm
POWER	Up to 3 hours. Brite <sup>23</sup> can be connected to a power bank for longer measurements
TOTAL WEIGHT	300 grams
SIZE	Battery housing 75 - 75 - 30 mm Headbands available in multiple sizes
ENVIRONMENT	Operating temperature: ~ 10-35 °c
INTERFERENCE	No interference with EEG, ECG or EMG.
OPTIONAL	All devices can be combined with the Portasync.
NOISE	~0.001 standard deviation in optical density at a total of ~5 optical densities at a measurement frequency of 10 hz
OFFLINE DATA STORAGE	100+ hours
RESOLUTION	24 bit
SAMPLE RATE	1 to 100 Hz
ACCESSORIES	9-axis orientation sensor
NIRS + OTHER MODALITIES	We deliver the following packages: Brite <sup>23</sup> + TMSI EMG package (2 channels or more) Brite <sup>23</sup> + TMSI EEG package (16 channels or more) Brite <sup>23</sup> + Tobii eyetracker.

## Get a quote

Contact us at:  
askforinfo@artinis.com

Brite<sup>23</sup> research package

## What's in the box?

- 1x Brite<sup>23</sup>
- 1x strong and sturdy Pelicase
- 1x License key
- 1x Bluetooth dongle

- Oxysoft, data analysis software
- Neoprene headband
- Laptop
- User Guide