

NIRSIT LITE

Brain Imaging System



NIRSIT Lite for Research

OBELAB introduces a new Near-Infrared Spectroscopy (fNIRS) system called NIRSIT Lite! This ultra-lightweight and easy-to-use wearable system is specially designed to measure hemodynamic responses in the prefrontal cortex region.

Key Features

- Ultra lightweight and wearable
- Safe optical measurement with no radiation
- Seamless wireless connection via BLE(Bluetooth Low Energy) connector
- Ergonomically designed to fit different head sizes comfortably
- Made of safe medical-grade silicon with no skin irritation
- Real-time monitoring of Oxy and Deoxy hemoglobin concentration changes
- 15 standard channels and 2 short separation channels
- Synchronization with E-Prime, PsychoPy, and Psychtoolbox (event markers)
- Supports CSV format for instant data export
- The easy-to-use proprietary analysis tool (also supports data export for open-source tools like Homer and NIRS-SPM)
- Simultaneous tracking of head motion using a 9-axis motion sensor

Application Areas



Brain Health



Psychiatric Disease



Neuro-Marketing



Neuro-Rehabilitation

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Technical Specifications

Optode distance	Regular 3 cm
Number of channels	15 channels (regular) 4 channels (0.8cm, 1.9cm)
Number of Optical Elements	Source : 5 Detector : 7 (regular) 6 (additional)
Wavelength	780nm, 850nm
Weight	172g (without strap (20g))
Sampling rate	8.138 Hz (about 8 samples / sec)
Motion sensor	9-axis
Operating time	5 hours (1000mAh rechargeable battery)
Wireless comm	BLE (Bluetooth Low Energy 5.0, 2.4GHz)
Recommended PC spec.	> Window 10, > RAM 8GB, SSD
Warranty	1 Year



Accessories

NIRSIT Lite	BLE Dongle, USB cable, Charger, Manual, Warranty Certificate, Disposable Patch (additional)
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