

NIRSIT LITE

Brain Imaging System



NIRSIT Lite for Research

OBELAB introduces a new Near-Infrared Spectroscopy (fNIRS) system, NIRSIT Lite! The ultra light-wieght, easy-to-use wearable system is specially designed to measure hemodynamics response in the prefrontal cortex region.

Key Features

- Ultra light-weight and wearable
- Safe optical measurement with no radiation
- Seamless wireless connection via BLE
- Ergonomically designed to comfortably fit different head sizes
- Made of safe medical-trade silicon (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
- 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 9-axis motion sensor

Application Areas



Brain Health



Psychiatric Disease



Neuro-Marketing



Neuro-Rehabilitation

NIRSIT LITE

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Technical Specifications

| | |
|----------------------------|--|
| Optode distance | Regular 3 cm |
| Number of channels | 15 channels (regular) 4 channels (0.8cm, 2cm) |
| 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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