

NIRSIT Lite for Research

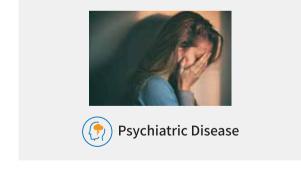
OBELAB is introducing a new portable functional Near-Infrared Spectroscopy (fNIRS) system: NIRSIT Lite! It is a light-weight, easily configurable, multi-channel fNIRS neuroimaging system for prefrontal cortex, specifically targeted for research.

NIRSIT Lite is designed to measure variations in cerebral hemodynamics on a realtime basis by radiating a near-infrared light beam, at two wavelengths of 780nm and 850nm of LED, into the cerebral cortex.

Boasting light weight of only 200g, it is designed to fit the head sizes of Adults.

The system comes with its dedicated monitoring and analysis software for researchers. Flexible design to fit various head sizes.









NIRSIT LITE



Key features

- Real-time multichannel monitoring (ΔHbO2, ΔHbR, ΔHbT)
- Non-invasive measurement
- 15 channels with short channel separation (8mm)
- Motion artifact removal algorithm using embedded motion sensor
- Ultra light weight (200g)
- BLE wireless connection
- CSV file format support for measured data
- Flexible design to fit various head sizes
- Various cognitive and behavioral tasks

Technical specifications

| Optode distance | 3cm |
|------------------|--|
| Channels | 15 channels (multi-distance : 6 channels) |
| Optical Elements | light sources: 5 / detector: 7 (default) → Short channel possible (8 mm distance) |
| Wavelength | 780nm, 850nm |
| Weight | 200g |
| Sampling rate | 8.138 Hz |
| Motion sensor | 9 axis |
| Operating time | 5 hours (1000 mAh rechargeable battery) |
| Wireless | BLE (Bluetooth Low Energy 5.0, 2.4GHz) |
| PC tool | Window 10 based, external sync (E-prime, TCP/IP communication) |
| Warranty | 1 year |



Accessories

Nirsit Lite BLE Dongle USB cable OTG cable Charger Manual Warranty Certificate



