

NIRSIT LITE

Brain Imaging System



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.



Brain Health



Psychiatric Disease



Neuro-Marketing



Neuro-Rehabilitation

NIRSIT LITE

Brain Imaging System



Key features

- Real-time multichannel monitoring (ΔHbO_2 , 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
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