

NIRSIT

Brain Imaging System



Portable High-resolution fNIRS device, NIRSIT!


OBELAB is introducing a new Near-Infrared Spectroscopy (fNIRS) system called NIRSIT! This easy-to-use wearable system is specially designed to measure the hemodynamic response in the prefrontal cortex region.

Key Features

- Safe optical measurement with no radiation
- Easy wired and wireless connections
- Ergonomically designed to fit different head sizes comfortably
- Made of safe medical-grade silicon (no skin irritation)
- Real-time monitoring of Oxy and Deoxy hemoglobin concentration changes
- Provides the most channels among frontal lobe measurement fNIRS Supports multi-distance measurement of 204 channels (regular is 48 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 6-axis motion sensor

Application Areas




 Cognitive Function




 Psychiatric Disease



 Neuro-Marketing



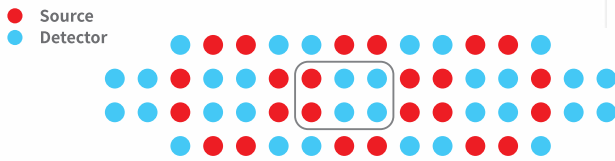
 Neurological Disorder

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Channel Arrangement



Technical Specifications

Optode distance	Regular 3 cm (Multi distance 1.5cm, 2.12cm, 3.35cm)
Number of channels	48 channels (Max 204 channels)
Number of Optical Elements	Source : 24 Detector : 32
Wavelength	780nm, 850nm
Weight	550g (without strap (20g))
Sampling rate	8.138 Hz (about 8 samples / sec)
Motion sensor	6-axis
Operating time	8 hours (3000mAh rechargeable battery)
Communication Protocol	Wireless : WLAN 2.4GHz IEEE 802.11b/g/n Wireline Serial Communication (Micro USB)
Recommended PC spec.	> Window 10, > RAM 8GB, SSD
Warranty	1 Year



Accessories

NIRSIT	Tablet, USB cable, OTG connector, Charger, Silicon Cap, Strap, Disposable Patch, USB (Manual, SW installer)
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