



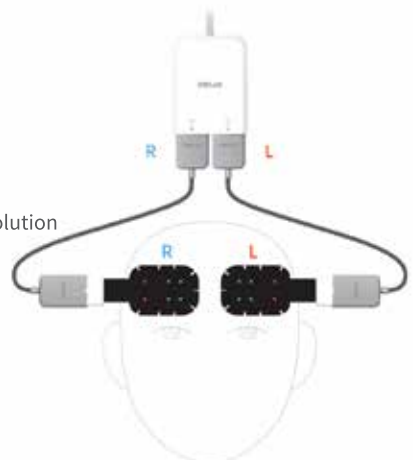
## NIRSIT ON

### Bedside Brain Monitoring System

NIRSIT ON is a device designed to measure regional oxygen saturation (rSO<sub>2</sub>) and hemodynamic variations ( $\Delta$ HbO<sub>2</sub>,  $\Delta$ HbR) in prefrontal cerebral cortex by placing two patches (left/right) radiating a near-infrared light beam, at two/four wavelengths. The setup of NIRSIT ON system includes Main Module, Link Module, patches, and a Surface Pro Tablet. OBELAB improved measurement accuracy by utilizing its advanced algorithm that compensates the variations in optical components.

### Key features

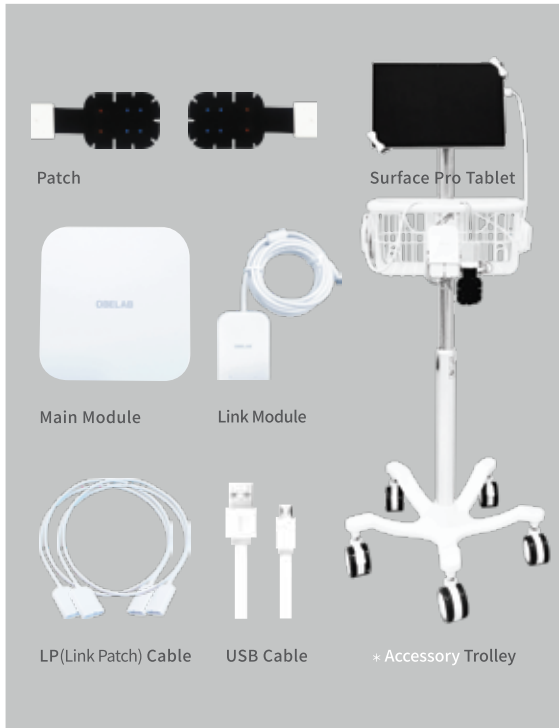
- Provides non-invasive regional tissue oxygen saturation (rSO<sub>2</sub>) monitoring
- Absolute rSO<sub>2</sub> accuracy of 4%
- Uses dual sources and quadruple detectors to minimize artifacts
- Continuous measurement of ( $\Delta$ HbO<sub>2</sub>,  $\Delta$ HbR, and  $\Delta$ HbT) with 32Hz temporal resolution
- CSV file format support for measured data
- Four-wavelength LED or Laser sources
- Flexible disposable patches for various head sizes and personal hygiene
- Tolerant to the ambient light
- User-friendly graphical interface using tablet based monitor



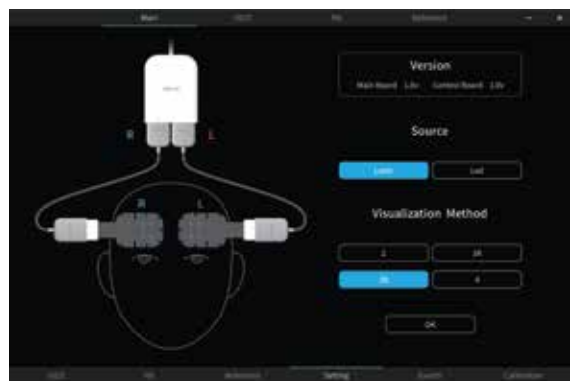
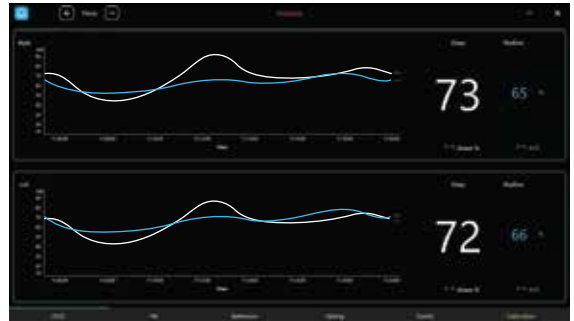
# NIRSIT ON

Bedside Brain Monitoring System

## Main Unit & Components



## Tablet · PC Tool



## Mechanical Characteristics

Size (Width x Depth x Height)	Main Module : 94 x 94 x 11.2 mm Link Module : 60.2 x 94 x 11 mm
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Weight	Main Module : 71 g Link Module : 192 g
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## Technical Characteristics

Source Type	LED or VCSEL laser
Number of Source	2
Output power	max 1mW
Operation mode	continuous wave
Number of Detectors	4
Number of Channels	8
Source Detector distance	3cm, 3.35cm, 2.5cm, 2cm
Sampling Rate	8.138 Hz / 32 Hz (with 5sec rSO2 display)
rSO2 range	15% ~ 95%
rSO2 accuracy	+/- 4%

## Electrical Characteristics

Input Voltage (via USB)	5 V
Maximum Current	0.9 A
Communication	USB to UART
Current consumption	4.5 VA

## ETC

Model Name	NIRSIT ON
Warranty	1 year
Tablet/PC requirements	OS : Windows 10 or more CPU : Intel Core i5 or more Memory : 8 GB or more Storage : 128 GB SSD or more

