



Flow2

Technical Specifications

Time-Domain fNIRS

Time-Domain measurements have improved depth sensitivity and reduced susceptibility to artifacts compared to traditional CW-fNIRS.

Sampling Rate

With our industry-leading 3.5ms integration time, we are able to image over the whole cortex at a rate of 3.76Hz and sample the heart rate at 7.5Hz.

Output Format and Metrics

Standard Analyses for Included Reference Tasks

With all Kernel tasks that ship with the system, simple behavioral and brain analyses reports are available.

Automated Quality Control

We offer both a basic and a detailed report on the signal quality of each collected dataset.

Data Download

Data can be downloaded at various stages of preprocessing as SNIRF files (Shared Near-Infrared Spectroscopy Format, see [specification](#)). Learn more about how to use Flow2 data [here](#).

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Optical Modules

Each with

3

Dual-Wavelength Sources
(690nm/905nm)

and

6

Time Resolved
Detectors

Up to

3,500

Measurement Channels

8.5mm - 60mm

Source-Detector Separation

> 100dB

Dynamic Range

4

EEG Electrodes

1kHz

EEG Sampling Rate

Headgear

Fits heads of 52cm - 62cm circumference and 32cm - 37cm Bitragion Coronal Arc

Power Supply

USB-PD
Delivered over USB-C

Data Storage

Data streamed to acquisition PC at rate of 1GB/min of recording

Optode Style

Modular

Power Consumption

50W Max

Data Transfer

USB 2.0

Weight

2.5 kg

Cable

Up to 10' USB-C

Laser Classification

Class 1 (FLPPS
21CFR1040.10)