Flow 2 **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 4.75Hz and sample the heart rate at 9.5Hz.

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 Flow 2 data here.



Optical modules

Each with

and

6

Dual-wavelength sources 690 nm / 905 nm

Time-resolved detectors

Up to

3,500

Measurement channels

8.5 mm - 60 mm

Source-detector separation

> 100 dB

Dynamic range

1 kHz

EEG electrodes

EEG sampling rate



Fits heads of 52-62cm circumference and 32-37cm Bitragion coronal arc

Optode style

Modular

(1) Power supply

USB-PD Delivered over USB-C

9 Power consumption 50W Max

Power and data cable Up to 10' USB-C

Data storage

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

↓↑ Data transfer **USB 2.0**

Laser classification

Class 1 (FLPPS 21CFR1040.10)

Weight 2.5 kg

