# DevKit-3 **Technical Specifications**





Inspired by our Flow 2 system, the 3-module DevKit offers a more flexible and adaptable approach to experimentation and data collection. By employing a design that allows users to customize and install optical modules as desired, researchers can optimize sensor placement for their specific research goals.

### **Time-Domain fNIRS**

**Optical modules** 

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

Each with

### Sampling rate

With our industry-leading 3.5ms integration time, we are able to image at a rate of up to 16Hz.

**Dual-wavelength sources** Time-resolved detectors 690 nm / 905 nm

## **Output Format and Metrics**

## Standard analyses for included reference tasks

50+

8.5 - 27 mm

and

6

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

Within-module Source-detector channels with separation

#### **Automated quality control**

Up to

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

60 mm

#### Data download

Between-module channels

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 DevKit data here.

> 100 dB

Dynamic range

# Headgear Custom

(1) Power Supply

**USB-PD** 

Delivered over USB-C

Data Storage

Data streamed to acquisition PC at rate of 75MB/min

Optode Style

Ships with headband

Modular

**9** Power Consumption

15W Max

↓↑ Data Transfer

**USB 2.0** 

**I** Weight

0.2 kg

Power and data cable

Up to 10' USB-C

Laser Classification

Class 1 (FLPPS 21CFR1040.10)