DataLogger

Features

- Untethered, battery powered neural recording system

- 32 channel digital headstage, wideband continuous recording at 40 kHz sampling rate

- Headstage uses standard Omnetics connector

- Headstage includes user-configurable red and green tracking LEDs

- Base unit controls headstage recording via infrared link

- Up to four infrared emitter units can be used for coverage of a larger area

- Base unit allows simultaneous parallel recording of digital event data; either 16 channels of individual events, or 16 bit data words, the same as one port of an OmniPlex digital input card

- Base unit connects to a Windows 7 or Windows 10 PC using a standard USB interface

- Headstage docks on base unit for downloading of recordings and charging

- BaseControl software application controls data acquisition, downloads and manages recording files, and configures all options for the base unit and headstage

- Headstage and base recordings are merged into a single acquisition file that combines wideband data and digital events in Plexon standard PL2 or PLX formats, compatible with Neuroexplorer, Offline Sorter and Plexon offline file reading SDKs

- BaseControl's Preview window allows the user to quickly inspect recordings on a docked headstage without having to write them to file and open them in an external application

- User configurable headstage settings include analog and digital filter cutoffs and referencing mode, identical to an OmniPlex DHP system

Specifications	
Dimensions	31mm x 23mm x 15.5mm
Weight	8 grams
Battery Life	45 minutes
Channel Count	32
Sampling Rate	40 kHz per channel, 16 bit resolution
Digital Inputs	16 channels of individual events, or one 16 bit data word
Connector	Standard Omnetics
Tracking LEDs	Two per headstage (red, green)
Communication Type	Infrared
Range	Each emitter has a range of 5ft (up to 4 emitters can be used)
Recordings per headstage	Maximum of 512 recordings
File Formats	.plx/.pl2