

NeuLive

Autonomous, Smartphone-Like Brain Explorer



NeuLive

Record & Stimulate
Brain Region of Interest



User Devices

Visualize & Control
on Webpage

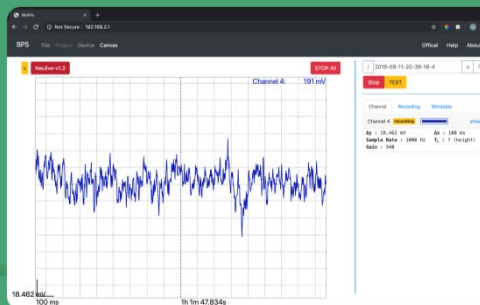
Free Subject



Headstage with

- ✓ Wireless Connection to Hub
- ✓ Miniature Dimension
- ✓ Light Weight

Plug & Play



- ✓ Control via Webpage
- ✓ Control with Mobile Device
- ✓ Intuitive User Interface
- ✓ Real-Time Data Plot

Connected Team




- ✓ IoT Devices
- ✓ Remote Control
- ✓ Multi-User Joint Research
- ✓ Multi-Device Configuration
- ✓ Direct Data Download

Specification

NeuLive 3.1 BPS-NL-031



Recording Channels	16	
Stimulation Channels	8	
Dimension /Weight	2.3cm x 1.35cm x 0.8cm / 3.6g	
Battery Duration	> 8 hrs (60 mAh)	
Wireless Range	2 m	
3D Accelerometer	Yes	
Optical stimulation channels	4 (max.8)	
Memory extension	128 GB (SD) / 1 GB (Flash)	
Recording	Noise	< 7 μV_{rms} (LNA)
	ADC Resolution	12 bit
	Sample Rate	10k Sample/s (Bluetooth) ✖ 40k Sample/s (SD.) ✖ 
Stimulation	Level	5 μA - 4mA (Step: 5 μA)
	Frequency	1~20k (Step: 1Hz)
	Pulse Width	10 μs ~10ms (Step: 10 μs)
	Waveform	Pos/Neg/Biphasic

Hub BPS-HUB-02



Dimension	14 x 14 x 5 cm
User Interface	Web page Wi-Fi Connection
Storage	128 G
Power	Micro USB (Adapter included) 10 min UPS
Concurrent Control	4 NeuLives (for 4 animals)

Electrode (Customized Model)



Customized electrodes for multi-site recording/stim./optical stim.



www.bioproweb.com/series/neulive/