



GRAPEVINE PLATFORM

Perfect for Primates

Designed to support high channel counts and complex experimental designs, Ripple Neuro's Grapevine System is the clear leader in facilitating advanced primate electrophysiology.

Features

- High channel count (up to 512 neural channels in addition to analog and digital inputs and outputs) enables experiments with multiple MEA/FMAs
- Modular design and flexible amplifier configuration enables acquisition of multiple types of signals (ECoG, EMG, LFP, Spikes, etc.)
- Programmable software interface provides real-time access to signals and stimulation control for closed-loop experiments
- Analog and digital inputs and outputs enable users to collect signals from and send signals to external devices that are time synchronized to neural data



MODULAR SYSTEM FOR MULTIPLE EXPERIMENTAL PARADIGMS

The Grapevine Neural Interface system serves as a single hub to collect and organize all experiment activity. The system automatically synchronizes information from external devices with collected neural data enabling users to generate integrated data sets with a single system.

Record

- Intramuscular or epimysial EMG: Implantable (Link-R 32) and percutaneous
- Intracortical: LFP, single units and ECoG
- Surface: EEG and EMG

Stimulate

- Independently controllable current source on each channel
- Stimulate on multiple channels at the same time without interrupting signal recording

Closed-Loop Control

- Configure hardware on the fly with easy-to-use graphical software interface
- Easily access signals and control stimulation output programmatically in real time through Matlab, Python and C++

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