

Introducing the ACO32 Motorized Commutator for Integrated Neural Recording and Optogenetic Stimulation



This 32-channel active commutator with built-in support for both neural recording and optogenetic stimulation is targeted for neuroscientist taking the next step in neurophysiology.

Optogenetic Stimulation

A single channel, optical fiber assembly is built into the commutator to allow optical targeting and excitation on neural circuits for artifact free electrical recordings in freely behaving animals. The fiber optic joint can pass wavelengths from 440-610 nm so all optogenetic tools are available to the end user. The assembly is user serviceable to allow for easy replacement of the optical fiber.

High Quality Neural Recordings

The motorized design of this commutator includes built-in electrical shielding to ensure an ultra quiet environment for neural recording. Combined with lightweight cables and connectors to minimize the torque caused by subject motion, the ACO32 is a must-have component for your awake behaving protocol.

Reliable Commutator Operation

Sensors continuously measure small changes in animal position and control the motor and commutator position. Pushbuttons allow optional manual control, and an input BNC can be used to inhibit the motor during critical recording periods. A banana jack provides access to ground, so that users can connect the commutator ground to an external ground, such as a faraday cage, to minimize Ground loops.

Add optogenetic stimulation to your neural recording system with this low noise, high performance commutator.



Specifications

Number of recording channels:	32
RPM:	12
Power:	1500 mAh rechargeable Li-ion Battery



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