



# CAMBRIDGE NeuroTech

Advanced Electrophysiology Systems

## nano-Drives Features, Advantages and Benefits

Designed to mate with our innovative silicon neural probes to allow precision movement in freely behaving animals, the nano-Drive offers you convenient co-alignment of fibre optics and fluidic cannulas. Light-weight with a small footprint, even a mouse can carry multiple nano-Drives.

### **Smallest, most accurate drives ever made...**

...small 2 x 4 mm footprint, 0.5 grams, 205 microns / turn with 5 mm travel using a spring-loaded screw with minimal back-lash.

### **Precision engineering...**

...robust design ensures accuracy, enables sterilization and re-use.

### **Silicon neural probe compatible...**

...purpose-designed to guarantee easy alignment with drive axis.

### **Optogenetics compatible...**

...easily co-align our silicon neural probes with a fibre optic cannula across 5 different positions with respect to probe shanks.

### **Scalable to multi-loci implants...**

...the small footprint of the nano-Drives facilitates targeting of multiple brain areas within the same animal, opening up network- and system-level experiments with combined recording and optogenetics.

### **Compact implants...**

...easily co-mount multiple drives per animal for large-scale, multi-loci network targeting and keep head-pieces minimally-sized to facilitate natural behaviour.



Dual site implant - 2 x 32 channel probes with 2 x nano-Drives

