



### Greetings!

Welcome to New Scale News - LAB AUTOMATION edition - featuring micro motion systems and applications in medical and biomedical research.

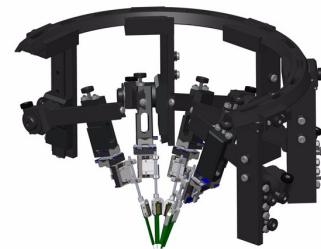
This month we focus on what's new with the Multi-Probe Micromanipulator for neural recording with high-density silicon probes.

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## MPM System Featured by Open Ephys

**The Multi-Probe Manipulator (MPM) System was featured in a recent newsletter from Open Ephys, the open-source electrophysiology community. They wrote:**

"The latest silicon probes are packing even more sites onto ever thinner shanks, resulting in more well-isolated units in the vicinity of the probe. However, in order to measure interactions among neurons distributed throughout the brain, multiple probes must be inserted simultaneously.



"In collaboration with Josh Siegle, a Scientist at the Allen Institute and one of the co-founders of Open Ephys, New Scale Technologies has created the first insertion system designed specifically for acute experiments with silicon probes. Their **Multi-Probe Manipulator (MPM)** uses their tiny 3-axis motorized stages to align up to 5 probes with sub-micron precision. Four manual degrees of freedom facilitate coarse adjustments, and can be used to move the probes safely away between experiments.

"If you're looking to scale up your silicon probe recordings, New Scale may have the optimal solution."

[Read the Open Ephys newsletter here.](#)

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## Slim probe mount for NeuroNexus A32 probe

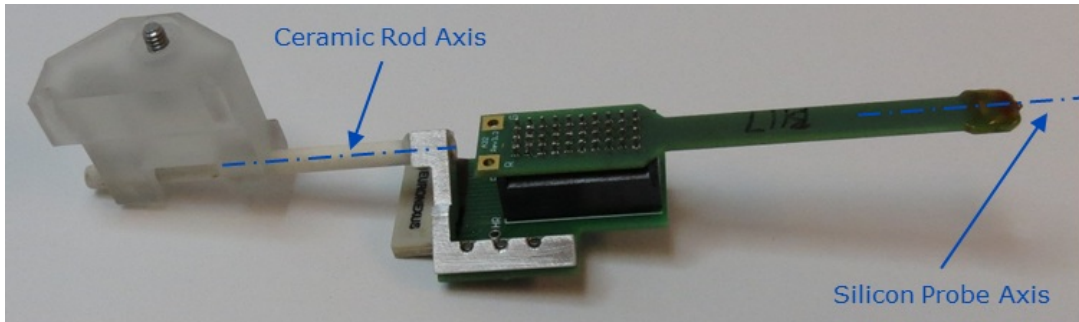
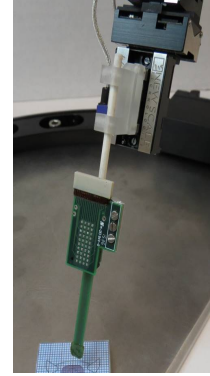
**Slim-profile probe mount allows close spacing of NeuroNexus A32 probes with OM32 adapter.**

The probe mount is easily installed on the MPM system using one captive screw. It allows researchers to rotate the silicon probe and

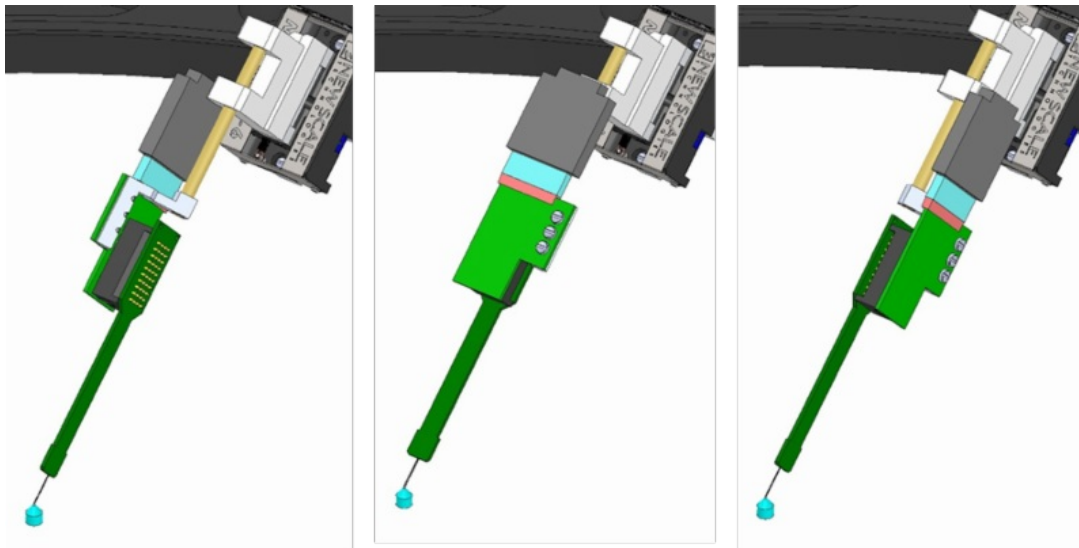
electronics to any angle in the probe mount. Its slim design allows close spacing of adjacent probes.

NewScale developed the probe mount to meet the needs of leading electrophysiology researchers using the **NeuroNexus high-density microelectrode array**.

**Contact New Scale for information** about an MPM probe mount for your silicon probe.



MPM Probe Mount-2 with NeuroNexus A32 Silicon Probe and OM32 Adapter.



The probe can be rotated about the fixed axis. The slim design of the probe mount allows close spacing of adjacent probes.

## TECH NOTE

# Pre-positioning solution for MPM System speeds setup, protects probes from damage

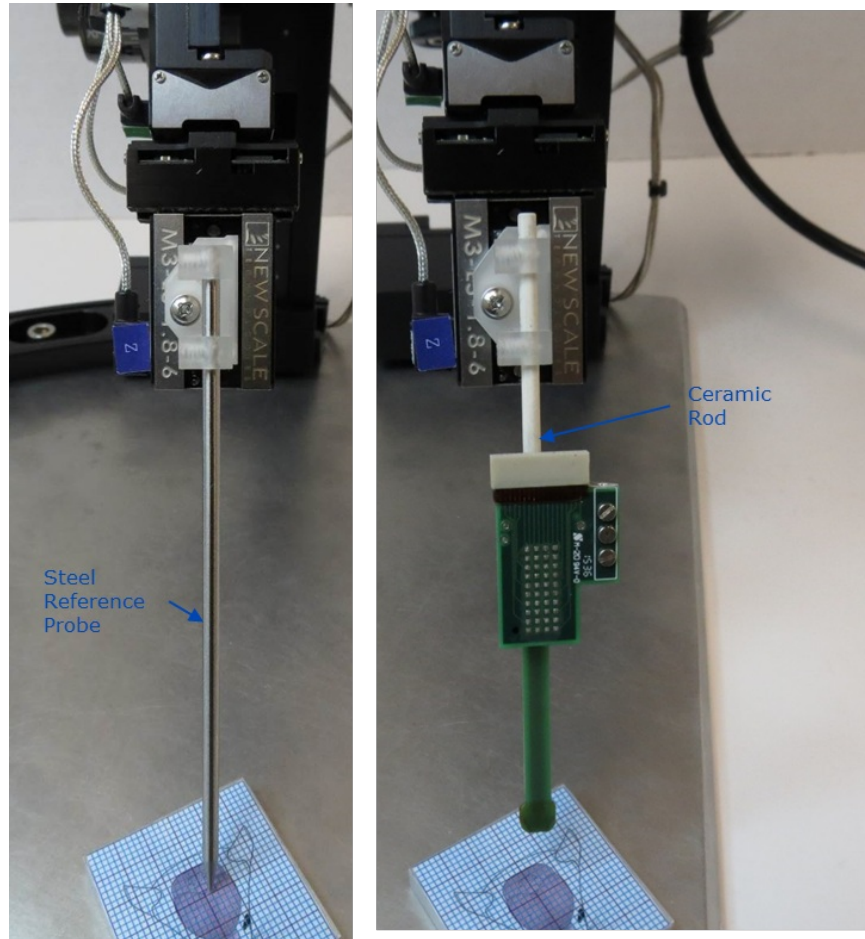
The MPM System provides 6 mm of XYZ motorized probe movement. In practice this means that the probe tip must be "pre-positioned" within ~1 mm of the target insertion point in the brain.

The MPM-4 DOF ARM provides four manual axes of adjustment to pre-position the probe tip. A steel reference probe replaces the silicon probe during pre-positioning to enable precise, low-risk calibration of the desired starting position.

This repeatable starting point reduces setup time, minimizes the risk of damage to the silicon probes during setup, and maximizes data collection time.

A new Tech Note describes the pre-positioning system used in conjunction with the MPM

DOWNLOAD THE TECH NOTE



## New distributors for the MPM System

NewScale is pleased to announce three new distributors for the Multi-probe Micromanipulator System.

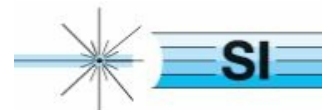
**Worldwide: Cambridge Neurotech**  
*World-leading silicon neural probe technology*  
Tahl Holtzman, PhD  
**Email**  
[www.cambridgeneurotech.com](http://www.cambridgeneurotech.com)



**In Japan: Physio-Tech Co., Ltd.**  
*Distributor of NeuroNexus probes*  
Phone: +81 (0)3-3864-2781  
[www.physio-tech.co.jp](http://www.physio-tech.co.jp)



**In Germany: SI Scientific Instruments GmbH**  
*30+ years of experience in advanced research instruments*  
Phone: +49 8105 77940  
**Email**  
[www.si-gmbh.de](http://www.si-gmbh.de)



## About Us

New Scale Technologies develops small, precise and smart motion systems for critical adjustments of optics, and many other micro positioning applications. Our tiny "all-in-one" motion modules with embedded controllers are easy to integrate into next-generation instruments for medical, scientific and industrial applications. They speed development time and deliver best-in-class performance in handheld, portable and laboratory systems.

**Contact us.**

# New Scale Technologies

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SMALL, PRECISE, SMART ... IN MOTION

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