

# Introducing MegaSPIM

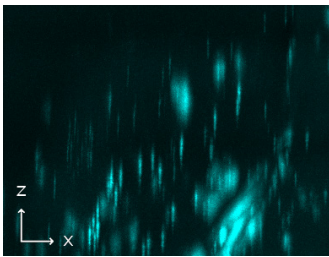
High-resolution light sheet microscopy for a wide range of samples

- **One system, many applications:** Rapidly image thin sections and a variety of cleared tissues, including thick human or other primate brain sections, and arrays of smaller samples such as whole rodent brains or organoids.
- **High-throughput volumetric imaging:** Obtain uniform axial resolution across the entire FOV with patented axial sweeping technology, and quickly image large or multiple samples with dual camera acquisition.
- **Complete solutions, from tissue prep to publication:** Access custom tissue processing, mounting, and analysis solutions for different sample types, and leverage our post-processing power for large data sets.

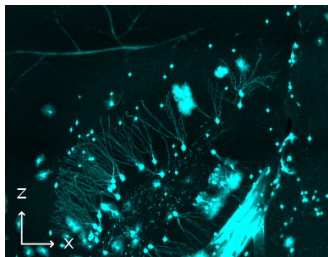


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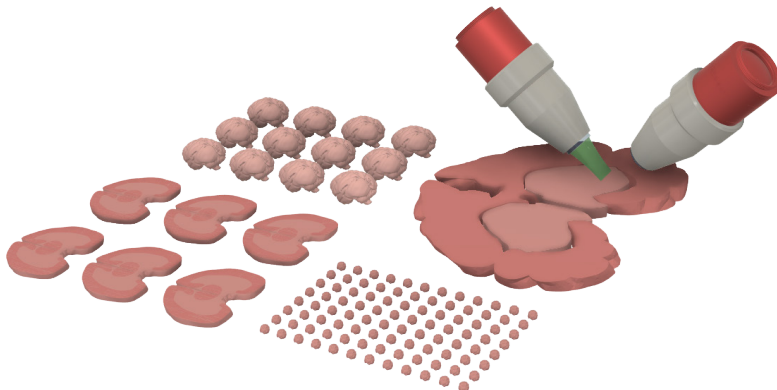
Without axial sweeping



With axial sweeping



Endogenous tdTomato expressed in mouse cortex, 1.8X.



## TECHNICAL SPECIFICATIONS

<b>Light Sheet Formation</b>	Dynamic axial sweeping ( <i>Dean et al. 2015</i> )
<b>Specimen Lateral Size</b>	Up to 200 mm x 200 mm
<b>Detection Objective</b>	1.8X, 3.6X, 9X, 15X, 22X
<b>Camera</b>	Hamamatsu ORCA-Fusion Digital sCMOS camera (2304 x 2304 pixels) with lightsheet readout mode
<b>Dual-Camera Acquisition</b>	Doubled imaging throughput with independent focus control for each camera
<b>Laser Lines</b>	Up to 7, 405 - 785 nm