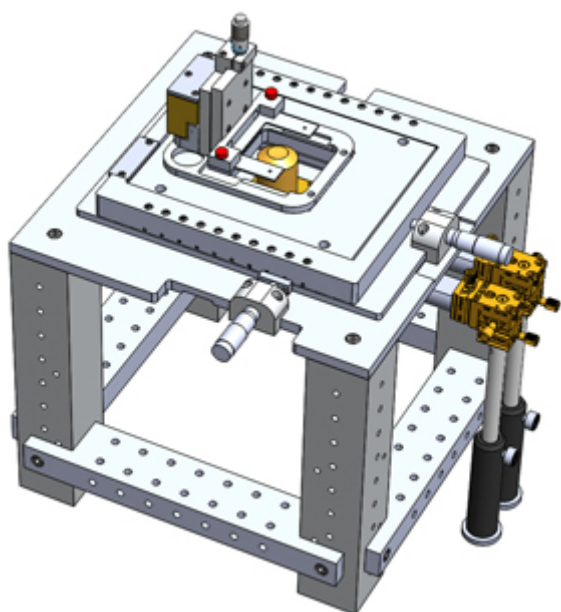




MicroMirror TIRF Demonstration at the upcoming Midwest Single Molecule Workshop at University of Iowa



*Rendering of the **MicroMirror TIRF system** showing the integrated imaging & motion control platform with adjustable micromirror mounts.*

References

1. L. J. Friedman, J. Chung, J. Gelles, *Biophys J* **91**, 1023 (Aug 1, 2006).
2. A. A. Hoskins et al., *Science* **331**, 1289 (Mar 11, 2011).

As part of our **Single Molecule Imaging** portfolio, Mad City Labs offers a **MicroMirror TIRF microscopy system**. This system enables scientists to study the ordered assembly and function of biological complexes at the single molecule level.

Our MicroMirror TIRF system uses through-the-objective excitation, but replaces the dichroic mirror used in conventional TIRFM systems with two broadband micromirrors positioned at opposite edges of the back aperture of the objective lens. This illumination method enables the spatial separation of the excitation and emission pathways, eliminating the need to spectrally separate them using a dichroic mirror. By eliminating multi-band dichroic mirrors, our MicroMirror TIRF microscopy system yields the superior photon sensitivity and signal-to-noise ratios required for single molecule analyses using three or more fluorophores.

For applications requiring TIR illumination over long periods of time, Mad City Labs has also developed a "TIRF-lock" system. The TIRF-lock software adjusts the Z-axis position of the nanopositioner to maintain the desired TIR illumination angle.

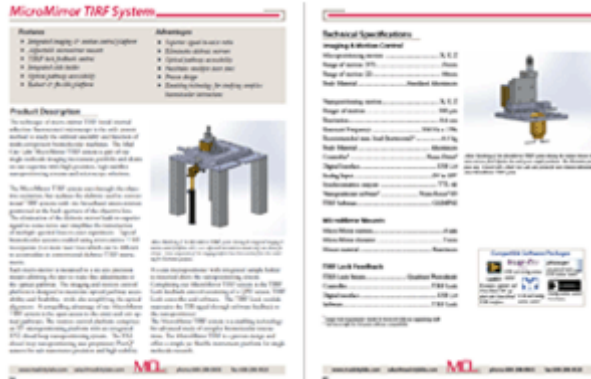
MicroMirror TIRF Demonstration at the 4th Midwest Single Molecule Workshop at University of Iowa, July 31 - August 2

The **Midwest Single-Molecule workshop** will gather the leading researchers in single-molecule biophysics from all across the Midwest to share ideas, research, and resources.

Mad City Labs Inc. will be sponsoring a lab tour to demonstrate the MicroMirror TIRF microscope during

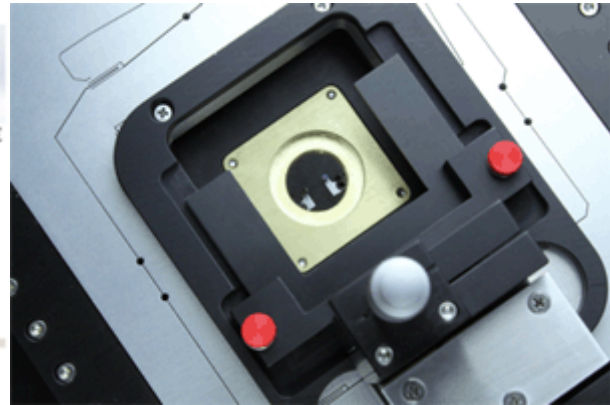
the workshop. If you are registered for the workshop and are interested in signing up for the lab tour, please email MWSMW-2016@healthcare.uiowa.edu with mmTIRF in the subject line.

MicroMirror TIRF System Brochure

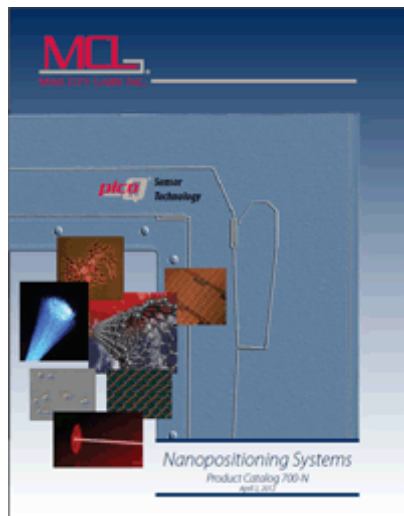


The brochure provides detailed technical information about the MicroMirror TIRF System. It includes sections for Advantages, Product Description, and Technical Specifications. The Advantages section lists features such as digital image acquisition, TIRF excitation control, and high-speed image acquisition. The Product Description section explains the system's architecture and its ability to provide high-resolution, high-speed imaging. The Technical Specifications section lists various parameters including range of motion, resolution, and throughput.

MicroMirror TIRF System Specifications



Catalog



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