

BioPhotonics– July 2012

BREAKTHROUGH PRODUCTS



◀ Negative-Stiffness Optical Table

Minus K Technology, in collaboration with Kinetic Systems Inc., has announced an ultralow natural frequency negative-stiffness optical table isolation system for Raman spectroscopy, atomic force microscopy (AFM) and AFM-Raman integration. The MK52 achieves 0.5 Hz or lower vertical and horizontal natural frequencies and supports static loads. When adjusted to a 0.5-Hz natural frequency, it achieves 93% isolation efficiency at 2 Hz, 99% at 5 Hz and 99.7% at 10 Hz. Available in sizes up to 4 × 8 ft with gross load capacities up to 2000 lb, it has a 3/8-in.-thick ferromagnetic stainless steel top skin, 3/8-in.-thick carbon steel bottom skin and a plated-steel precision honeycomb core. Customization options include monitor stands, Faraday Cages, seismic restraints, tabletop enclosures and nonisolated shelves. It is suitable for cell injection, confocal and optical microscopy, wafer probing, and laser applications in medical research.

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