



## Outsource! – June 2024

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# New Isolation Platform for Low-Frequency Vibration Isolation

The new passive Negative-Stiffness tabletop vibration isolation platform provides the industry's thinnest low-height, low-frequency isolator for Microscopy



*New Negative-Stiffness CT-10 ultra-thin, compact low-height, low-frequency vibration isolation platform mitigates space constraints in microscopy applications.*

The new ultra-thin, low-height CT-10 passive isolation platform from Minus K Technology, at just over 12.5 inches square and 2.7 inches in height, offers advanced low-frequency vibration isolation performance. Compared to larger models like the CT-2, the CT-10 delivers exceptional 1/2 Hz vertical and ~1-1/2 Hz horizontal natural frequencies, outperforming traditional air tables and active systems. This innovation, which earned a 2019 Laser Focus World Innovation Award, utilizes Minus K's patented Negative-Stiffness technology, requiring no electricity, compressed air, or maintenance.

Erik Runge, VP of Engineering, highlights the demand for smaller, high-performance isolation platforms, stating, “The CT-10 provides the most compact 0.5 Hz isolator we have ever produced.” Ideal for small microscopes and AFM applications, the CT-10’s passive mechanical design ensures high isolation efficiency—approximately 93% at 2 Hz, 99% at 5 Hz, and 99.7% at 10 Hz.

With emerging technologies requiring precise vibration isolation in a compact form, the CT-10 meets these needs, offering superior performance in a smaller footprint. Its portability and flexibility make it an ideal choice for micro and nanomicroscopy applications, setting a new standard in vibration isolation.