

## **T-Vision enables video-rate imaging at 1.5 THz.**

*Microtech will introduce new THz imaging system at IRMMW-THz 2015.*

*Eugene, OR, August 19, 2015.* Microtech Instruments, Inc. announces availability of T-Vision - a new THz imaging system designed for research and industrial applications. Operation of the T-Vision is based on upconverting the THz image to the near-IR. By mixing the narrowband THz pulse with a near IR pulse at 1064 nm, the THz image is spectrally shifted to around 1070 nm, where it can be detected with a conventional CMOS camera. Demonstration videos taken with the T-Vision system can be seen [here](#) and [here](#).

The imaging system take advantage of unique features of high power THz source TPO-1500, developed by Microtech in 2004-2014. The TPO provides high average power of up to 1 mW in a narrow spectral band of less than 200 GHz centered at 1.5 THz. Pulses of 8 ps in duration provide high peak power, ideal for nonlinear interactions. The unique combination of high average power, high peak power and a narrow spectrum make the T-Vision system possible. More information on TPO systems can be found [here](#).

Microtech is making a demo of T-Vision available for testing at facilities based in Eugene, Oregon.

Please visit Microtech booth at IRMMW-THz2015 exhibit for more details. If you are interested in scheduling a meeting or requesting pricing information, please contact Renee Isley at [renee@mtinstruments.com](mailto:renee@mtinstruments.com)

### **About Microtech Instruments, Inc.**

Microtech Instruments is a manufacturer of advanced scientific instruments for Coherent Raman, Multi-photon and Terahertz imaging and spectroscopy applications. Serving the global scientific community for over 15 years, Microtech Instruments established a strong reputation for delivering highly functional and reliable products. Committed to innovation, Microtech collaborates with leading research organizations worldwide. For more information please visit [www.mtinstruments.com](http://www.mtinstruments.com)