

## **Microtech Instruments will demonstrate video-rate THz imaging systems at SPIE DSS 2015 conference.**

*Eugene, Oregon, April 20, 2015.* Microtech Instruments developed a new method for video-rate imaging of THz waves, often referred to as T-rays. This method is based on [upconversion of THz frequencies to near-IR range](#), effectively extending operation of CCD and CMOS cameras to THz range. The new imaging system is enabled by unique properties of [Terahertz Parametric Oscillators \(TPOs\)](#), which generate high power in a narrow range of THz frequencies.

THz imaging via upconversion is the most efficient for frequencies of 0.7 THz and above. For lower THz frequencies (0.05-0.7 THz), a combination on [TeraSense cameras](#) with [Microtech BWO generators](#) offers the most practical solution, which will be also presented at the exhibit.

Microtech is partnering with TeraSense for delivering such imaging systems to customers. Potential applications of this technology include monitoring of industrial processes, medical imaging and imaging of products and packages for quality control and security.

Please visit Microtech booth 864 at [SPIE DSS 2015](#) 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)