

New Terahertz source delivers 1mW of average and 1.5W of peak power at 1.5THz.

Microtech Instruments, Inc. will demonstrate applications of Terahertz Parametric Oscillator (TPO-1500-HP) for THz imaging at IRMMW-THz 2014.

Eugene, OR, September 10th, 2014. Microtech Instruments, Inc. announces availability of a new model of Terahertz Parametric Oscillator (TPO-1500-HP), which delivers 1mW of average and 1.5W of peak power at a narrow range of frequencies around 1.5THz. The narrow spectrum of this source (about 100GHz) fits into one of transparency windows of the atmosphere, making it suitable for practical THz imaging applications.

http://www.mtinstruments.com/THz_Generators.html.

High average power of TPO-1500-HP is sufficient for direct detection of THz images using micro-bolometer cameras. High peak power of this source enables video-rate imaging via THz-to-Optical upconversion method, described in our recent publication: http://mtinstruments.com/downloads/CLEO_2014_final.pdf

Unique temporal and spectral characteristics of TPO-1500-HP result in high contrast and dynamic range of the upconverted images. THz imaging at video-rate speed makes this approach attractive for applications in security scanning, industrial process control, and bio-medical imaging. Updated version of application notes for TPO-1500-HP and links to two THz movies are available at (http://mtinstruments.com/THz_Generators.html)

Please visit Microtech booth at IRMMW-THz2014 exhibit for more details. If you are interested in scheduling a meeting or requesting pricing information, please contact Renee Isley at 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