



Video Rate THz Imaging and Tomography enabled by a new THz source.

Microtech Instruments, Inc. will demonstrate applications of Terahertz Parametric Oscillator (TPO-1500-HP) for THz imaging and tomography at CLEO conference next week.

Eugene, OR, June 3rd, 2014. Dr. Patrick Tekavec of Microtech Instruments, Inc. will present video rate THz images, including tomographic time-of-flight images, at CLEO in San Jose CA. The presentation will take place at Executive Ballroom 2010F at 6:15 pm on June 12th, 2014 (paper number STh4F.7).

The images were obtained with a CMOS camera, using THz-to-Optical upconversion method. This imaging method is enabled by Terahertz Parametric Oscillator TPO-1500-HP, which delivers up to 0.3 mW of THz average power and more than 450 mW of peak power in a 100GHz wide frequency band, centered at 1.5 THz. Detailed product information for TPO-1500-HP and links to THz movies recorded using THz-to-Optical upconversion method are available at http://www.mtinstruments.com/THz_Generators.html.

Unique temporal and spectral characteristics of TPO-1500-HP result in high signal to background contrast in 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 is available at http://www.mtinstruments.com/2013_Datasheets/TPOappnotes_v8.pdf

Microtech Instruments will not be exhibiting at CLEO this year, but our management team will be attending the conference on June 12th and 13th. If you are interested in scheduling a meeting with Microtech Instruments at CLEO, please contact Renee Isley at renee@mtinstruments.com

About Microtech Instruments, Inc.

Microtech Instruments is a manufacturer of advanced scientific instruments for ultrafast Laser Micromachining, 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