

Menlo Systems GmbH
Am Klopferspitz 19
D-82152 Martinsried / Munich

Dr. Ida Z. Kozma
Marketing Manager

Phone +49 89 189166 0
Fax +49 89 189166 111
i.kozma@menlosystems.com
www.menlosystems.com

Press Release

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New low cost PCA for THz spectroscopy and imaging

Menlo Systems GmbH, manufacturer of frequency comb systems and femtosecond fiber lasers, and the Fraunhofer Institute for Physical Measurement Techniques (IPM) have again joined forces to develop a low cost photoconductive antenna (PCA) for THz generation.

Menlo Systems' new PCA, the TERA8-1, utilizes the same low temperature (LT) grown GaAs technology found in our current TERA8 with a single dipole structure for significant cost reduction. Unprecedented dislocations in the monetary markets have many customers looking for lower cost research avenues that we hope the TERA8-1 will address. At € 500 worldwide list price the TERA8-1 stands as one of the lowest cost 800 nm PCAs available today.

Cost aside, the TERA8-1 has all the performance customers have come to expect from our free space 800 nm PCAs. The wrapped dipole structure, when excited with 150 fs 800 nm laser pulses, emits and detects with 4 THz of bandwidth as plotted on the following page. The antennae come mounted, connected and individually tested, ready for use in spectroscopy or imaging applications.

Contact for further information:

Menlo Systems GmbH

Roman Jordan
General Contact
Phone: +49 89 189166 151
Fax: +49 89 189166 111
r.jordan@menlosystems.com

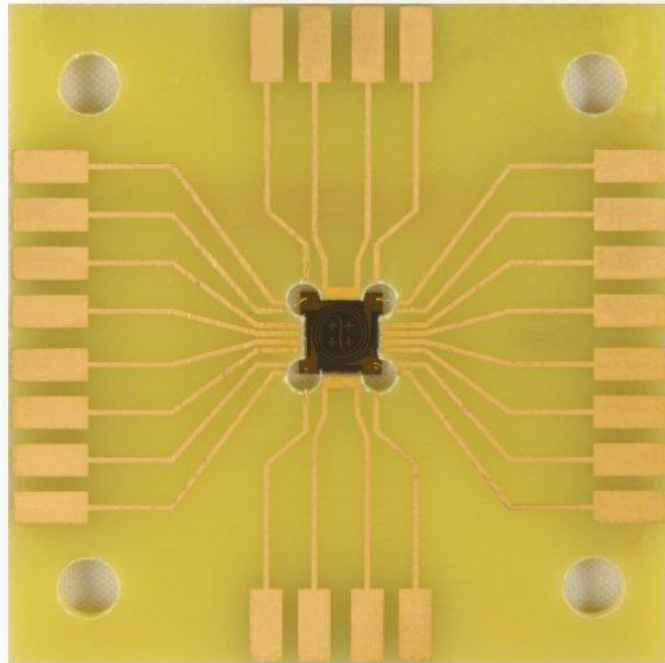
Menlo Systems Inc.

Brent Wheelock
USA & Canada
Phone: +1 720 878 4313
Fax: +1 617 812 5952
b.wheelock@menlosystems.com

Thorlabs Japan Inc.

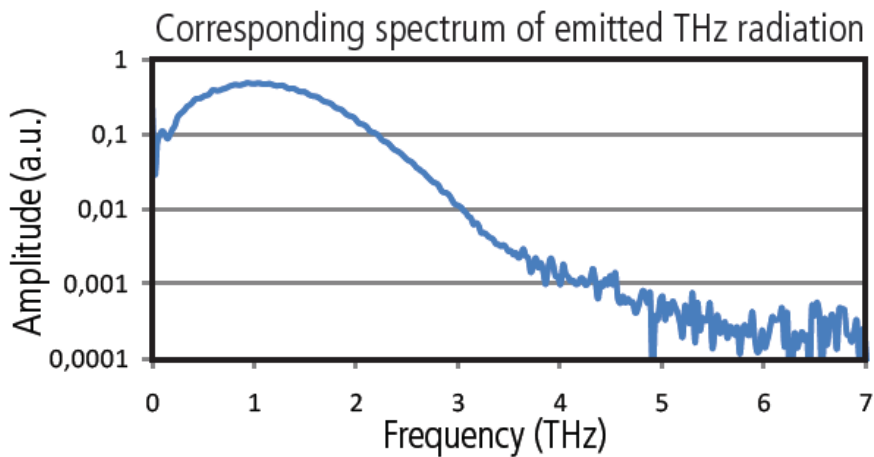
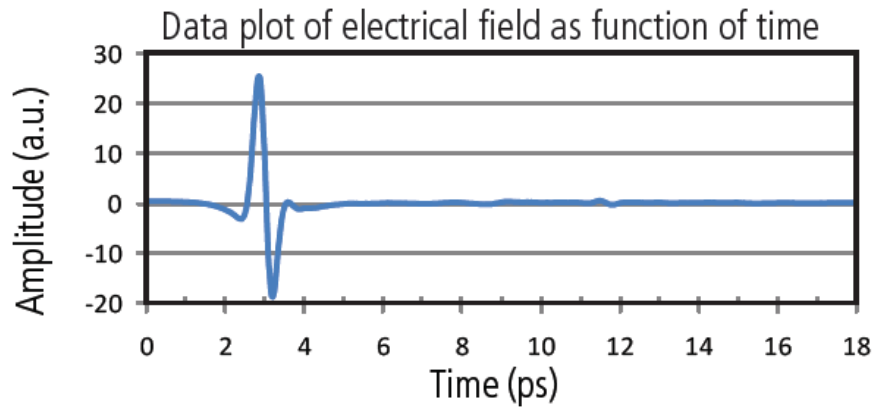
Sugio Wako
Japan
Phone: +81-3-5979-8889
Fax: +81-3-5979-7285
swako@thorlabs.jp

Menlo Systems, a leading developer and global supplier of instrumentation for high-precision metrology, was founded 2001 as spin-off of the Max-Planck-Institute of Quantum Optics. Known for the Nobel-Prize-winning Optical Frequency Comb technology, the Munich based company offers complete solutions based on ultrafast lasers and synchronization electronics for applications in industry and research. All our products are manufactured according to Lean Manufacturing standards. We think that Lean Production supports our strength in listening to the customer and manufacture in a fast and efficient way.



Menlo Systems – *TERA8-1 THz Antenna for 800 nm*

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Menlo Systems – Typical THz Pulse and Spectrum of TERA8-1

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