

Press Release

March, 2014

TERA K15 Mark II for flexible THz material analysis

With the TERA K15 Mark II Menlo Systems brings the latest generation of compact, fully fiber-coupled, turn-key THz time-domain spectrometer to the market. Using Menlo Systems' innovative figure 9[®] fiber laser, the system is mechanically robust and largely tolerates temperature and humidity variations of the surroundings. The improved antenna technology of the TERA K15 provides nearly ten times higher THz power, thus enabling efficient material analysis for thicker samples or for samples which are less transparent in the THz spectral range. The fiber coupled antenna modules and the use of light weight polymer lenses in the THz path ensure flexible and easy reconfiguration of the measurement geometry for a tailored THz spectroscopy or imaging setup. Laboratory applications and industrial quality control equally benefit from the non-destructive and contact-free THz material inspection method which is also safe for the user. Designed for 24/7 operation with highly reproducible system performance, the TERA K15 is ready to serve applications even in harsh environment and is ideal for implementation into production lines of various industrial branches, such as plastics, paper, food safety, or security.

Oliver Neutert ■ Head of Marketing
Phone +49-89-189166-152 ■ Fax +49-89-189166-111 ■ o.neutert@menlosystems.com

Headquarter: Menlo Systems GmbH ■ Am Klopferspitz 19a ■ D-82152 Martinsried ■ Germany
USA: Menlo Systems, Inc. ■ 56 Sparta Avenue ■ Newton, NJ 07860 ■ USA

www.menlosystems.com ■ www.frequencycomb.com

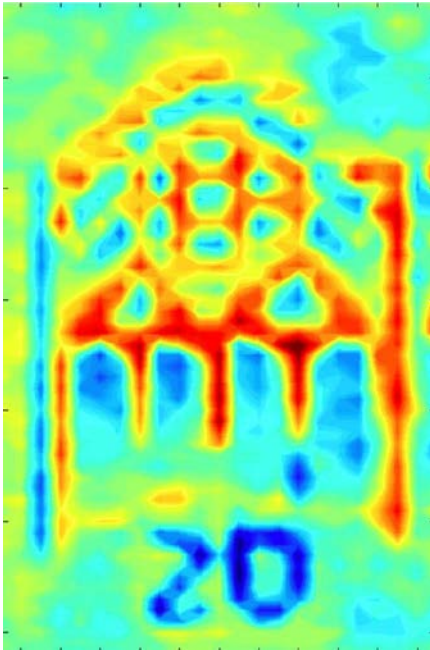


Image (350 dpi): MENLO_THz-watermark_pic_pr.jpg

Caption: THz transmission image of a water mark on a 20 Euro bank note, size:
20 mm x 45 mm.

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Menlo Systems

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. Pioneers of the Nobel-Prize-winning Optical Frequency Comb technology, the Munich based company offers complete solutions based on ultrafast lasers, synchronization electronics and THz systems for applications in industry and research.

Contact Headquarters

Oliver Neutert
Head of Marketing

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