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Press Release

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TERA K15: Highest flexibility for THz spectroscopy

Menlo Systems' TERA K15 fiber coupled terahertz (THz) time-domain spectrometer is a versatile system offering highest flexibility for THz broadband spectroscopy. As a complete solution, the TERA K15 includes Menlo Systems' erbium fiber laser with figure 9® technology, optomechanics for a tunable scanning window of up to 1700 ps, fiber-coupled THz antennas with > 6 THz bandwidth, and pre-aligned THz optics. The system can be synchronized with another source, for example for optical pumping or as a test bed for THz antennas. Optionally, the TERA K15 offers additional outputs for multi-channel measurements and for extending the laser wavelength, e.g. by frequency doubling. Whether in reflection or transmission geometry, the THz path can be adapted for different measurement needs. By means of an enclosure purging with nitrogen or dry air, the influence of humidity on the measurement sensitivity can be suppressed. With the TERA Image extension, the TERA K15 is capable of performing automated THz imaging, and the ImageLab software enables hyperspectral processing of THz image data.

Given its flexible character, the TERA K15 can be used in research as a multifunctional measurement instrument, for high-resolution spectroscopy of biological and chemical substances or semiconductor materials, for the development of new materials, the characterization of synchronous radiation, and even in the field of quantum technology. Due to its modular design, the system can be configured for a wide range of applications. The TERA K15 boasts a modern interface that allows seamless integration into existing measurement setups and the control of measurement tasks via remote access.

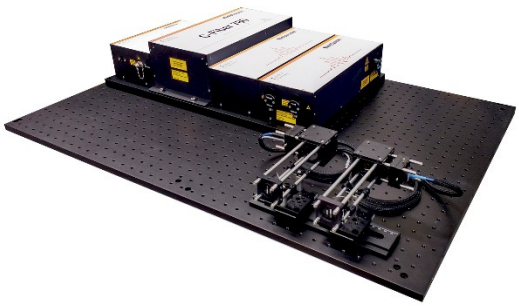

Figure: TERA K15 fiber coupled terahertz spectrometer

URL: https://www.menlosystems.com/products/thz-time-domain-solutions/terak15-terahertz-spectrometer/

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About Menlo Systems:

Precision in Photonics. Together we shape light.

Menlo Systems GmbH is a leading developer and global supplier of instrumentation for high-precision metrology. The company with headquarters in the west of Munich is known for its Nobel Prize winning optical frequency comb technology. With subsidiaries in the US, Japan, and China, and a global distributor network, Menlo Systems is closely connected to its customers from science and industry. The main product lines are optical frequency combs, time and frequency distribution, terahertz systems, ultrafast and ultra-stable lasers, and complete systems for quantum technology applications. Besides standard products, Menlo Systems develops and manufactures tailored solutions for laser-based precision measurements.