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EMCORE Introduces New Two-Channel PB7220 Portable Frequency Domain Terahertz Spectrometer

Expands Terahertz Systems Capabilities to Include Two-Channels Making it Possible to Perform Simultaneous Transmission and Reflection Measurements

ALBUQUERQUE, N.M., May 1, 2014 (GLOBE NEWSWIRE) -- EMCORE Corporation (Nasdaq:EMKR), a leading provider of compound semiconductor-based components and subsystems for the fiber optic and space solar power markets, announced today its latest breakthrough in terahertz technology with the release of the new PB7220-2000-T/R Two-Channel Portable Frequency Domain Terahertz (THz) Spectrometer. The PB7220-2000-T/R is capable of simultaneous phase coherent measurements of both the transmission and the reflection properties of a sample. The second channel allows a single system to collect sample information at various angles of reflection or scattering from the sample while continuously monitoring the transmission.

The PB7220-2000-T/R expands EMCORE's terahertz spectrometer line which also includes the PB7220-2000-T single channel system. EMCORE's PB7220 series THz spectrometers are designed for THz researchers and application developers who need to study the properties of materials at THz frequencies with high resolution, but don't have the resources or personnel skilled in the complexities of optical measurements. They are truly economical and portable THz systems that can sweep from 100 GHz to over 1.8 THz in a single rapid scan with high-frequency resolution. The PB7220 series employs precisely tuned, fiber-coupled, semiconductor distributed feedback lasers along with a highly advanced photo-mixing source that puts all the THz power at the frequency of interest, yielding excellent signal-to-noise ratios of up to 70 dB Hz across the scan range. In addition, the PB7220 series features sophisticated digital control hardware and software to provide a fully turnkey, portable THz spectrometer system.

"The PB7220 two-channel system is the most significant advancement in our THz technology since the introduction of PB7100 THz spectrometer in 2006," said Dr. Joseph Demers, Director of Advanced Photonics for EMCORE. "The industry has been seeking an economical two-channel system that can allow the simultaneous measurement of both the transmission and reflection properties of a sample. This added versatility in our THz platform makes it an even more valuable and flexible tool for a wider range of research, defense and homeland security related applications," added Dr. Demers.

All PB7220 series models feature fiber-optically-coupled source and detector heads that are mounted on a rail system. The PB7220-2000-T single-channel system utilizes a single rail while the PB7220-2000-R/T two-channel system employs an adaptable optical bench. For both systems the source and detector heads may be detached from the processor unit and used with extended fiber optic cables to provide maximum measurement flexibility in a wide range of applications.

For more information on EMCORE PB7220 Portable Frequency Domain Terahertz (THz) Spectrometers, please visit http://www.emcore.com/thz. EMCORE will be demonstrating its THz systems capabilities at the Defense, Security & Sensing show in booth #861, May 6-8 at the Baltimore Convention Center, Baltimore, Maryland.

About EMCORE

EMCORE Corporation offers a broad portfolio of compound semiconductor-based products for the fiber optics and space solar power markets. EMCORE's Fiber Optics business segment provides optical components, subsystems and systems for high-speed telecommunications, Cable Television (CATV) and Fiber-To-The-Premise (FTTP) networks, as well as products for satellite communications, video transport and specialty photonics technologies for defense and homeland security applications. EMCORE's Solar Photovoltaics business segment provides products for space power applications including high-efficiency multi-junction solar cells, Coverglass Interconnected Cells (CICs) and complete satellite solar panels. For further information about EMCORE, visit http://www.emcore.com.

Forward-looking statements:

The information provided herein may include forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934, as amended. Such statements include statements regarding EMCORE's expectations, goals or intentions, including, but not limited to, financial performance, production schedules, expected customer sales, product features and their benefits, product quality and product performance. These forward-looking statements are based on management's current expectations, estimates, forecasts and projections about

EMCORE and are subject to risks and uncertainties that could cause actual results and events to differ materially from those stated in the forward-looking statements. Risks and uncertainties that could cause EMCORE's actual results to differ from those set forth in any forward-looking statement are discussed in more detail in EMCORE's SEC filings available at www.sec.gov, including under the headings "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations." Forward-looking statements contained in this press release are made only as of the date hereof, and EMCORE undertakes no obligation to update or revise the forward-looking statements, whether as a result of new information, future events or otherwise.

CONTACT: EMCORE Corporation

Frank Weiss

Vice President, Advanced Systems

(215) 259-2400

frank_weiss@emcore.com

Investor

TTC Group

Victor Allgeier

(646) 290-6400

vic@ttcominc.com