



## **Excelitas Technologies Announces Enhanced High-Performance Single Photon Counting Module (SPCM) Solutions**

*Latest SPCMs Offer Improved Photon Detection Efficiency and Unmatched Timing Resolution*

**WALTHAM, Mass. and SAN FRANCISCO, Calif., February 5, 2013** – [Excelitas Technologies](#), a global provider of innovative customized optoelectronic solutions, announced today new offerings within its industry-leading single photon counting module (SPCM) suite of products designed to provide customers with the highest level of photon detection efficiency.

Built upon Excelitas' SLiK Single Photon Avalanche Diode, these enhanced modules offer unmatched linearity and dynamic range. Specifically designed for OEMs in life science and research applications, the [SPCM-AQRH](#), with a fiber coupling option, and the new timing optimized SPCM-AQRH-TR delivers on the scientific community's need for the highest-performing photon counting solutions.

The enhanced SPCM-AQRH offers an unmatched dynamic range and detects single photons over the wavelength range of 400 nm to 1060 nm. Leveraging a unique silicon avalanche photodiode, it achieves a peak photon detection efficiency of greater than 70% (700 nm) over a 180  $\mu\text{m}$  diameter active area to deliver maximum efficiency. The photodiode is both thermoelectrically cooled and temperature controlled, ensuring stabilized performance despite fluctuating ambient temperatures.

The new SPCM-AQRH-TR module is designed specifically to meet the needs of the time-correlated single photon counting market and is intended for highly focused applications like fluorescence lifetime measurements and fluorescence lifetime imaging microscopy. The AQRH-TR will offer an optimized timing resolution of <250 ps.

"Excelitas is delighted to showcase at Photonics West the latest advancements in SPCMs and growing portfolio of detection solutions," said Michael Ersoni, Senior Vice President and General Manager of Excelitas Technologies' global detection business. "With our latest innovations, we are excited to provide our customers with leading-edge detection solutions that their unique applications require."

The enhanced solutions will be on exhibit along with a wide-range of Excelitas' high-performance optoelectronic components and subsystems at SPIE Photonics West (booth #4421) in San Francisco from Feb. 5-7, 2013.

### **About Excelitas Technologies**

Excelitas Technologies is a global technology leader focused on delivering innovative, customized solutions to meet the lighting, detection, and advanced electronic systems needs of OEM customers. From aerospace and defense applications to industrial, safety and security, medical, analytical instrumentation, and clinical diagnostics, Excelitas Technologies is committed to enabling our customers' success in their specialty end-markets. Excelitas Technologies has approximately 3,000 employees in North America, Europe and Asia, serving customers across the world.

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