

# NEWS

## FOR IMMEDIATE RELEASE

### **Vertilon Launches SIB416 for Hamamatsu S11064 Multi-Pixel Photon Counter**

*New Product Supports Data Acquisition from up to 64 Silicon Photomultiplier Channels*

**WESTFORD, MA (November 16, 2011)** – Vertilon Corporation (<http://www.vertilon.com>), a leader in high performance charge integrating and photon counting data acquisition systems for optical sensors, announced today that it has launched a new product for use with the Hamamatsu S11064 multi-pixel photon counter (MPPC). The product called the SIB416 is designed to give researchers and developers a quick and easy path to evaluate the S11064 low light level sensor. Multi-pixel photon counters are an exciting technological advancement offering a lower cost, solid state alternative to photomultiplier tubes in a select set of applications. The S11064 is likely to find significant use in applications that include PET, SPECT, gamma cameras, and radiation detection. Designed for direct interface to Vertilon's PhotoniQ charge integrating DAQ systems, the SIB416 includes all of the electrical and mechanical hardware to fully support up to 64 input channels from up to four Hamamatsu MPPC devices. The S11064 devices mount to the SIB416 where their cathode signals are routed to connectors that interface to charge integrating preamplifiers in the PhotoniQ DAQ. A special current-sense output from the MPPC anodes is used to represent the combined charge signal measured from all SiPM devices in the arrays. This signal is fed to a user-programmable leading edge discriminator that generates a trigger signal when an event exceeding a preset energy threshold is detected on any of the S11064's. The PhotoniQ graphical user interface provides a convenient way to configure all adjustable parameters on the SIB416 and thus optimize its use for the intended application. "We have seen significant interest throughout our customer base in using the Hamamatsu S11064 MPPC in their research efforts and development projects," said Vincent Palermo, President of Vertilon. "By providing our customers with a rapid means to test and evaluate these innovative devices, we hope to greatly simplify the custom electronics requirements and thus accelerate the adoption of MPPCs." The SIB416 is currently in production and available now.

#### **About Vertilon Corporation** (<http://www.vertilon.com>)

Vertilon manufactures advanced products for markets utilizing multi-anode photomultiplier tubes, avalanche photodiode arrays, silicon photomultipliers, and other multi-element charge-based sensors. Vertilon's core product line is the PhotoniQ, a family of high performance multi-channel data acquisition systems that interface to optical sensors and collect and process their output signals. Vertilon's PhotoniQ products have been used throughout the world by leading universities, government laboratories, and corporate R&D groups in applications that include particle physics, flow cytometry, bioaerosol detection, SPECT, positron emission tomography (PET), gamma cameras, DNA sequencing, and confocal fluorescence microscopy.

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