NEWS

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Vertilon Launches SIB232 for Fluorescence Detection Applications

Sensor Interface Board Supports Hamamatsu H7260 32 Channel PMT

WESTFORD, MA (November 9, 2009) – Vertilon Corporation (http://www.vertilon.com), a leader in high performance multichannel data acquisition systems for optical sensors, announced today that it has introduced the SIB232 sensor interface board for fluorescence detection applications utilizing the Hamamatsu H7260 thirty-two channel multianode photomultiplier tube (PMT). Used in combination with a Vertilon PhotoniQ data acquisition system, the SIB232 is capable of simultaneously capturing thirty-two channels of high speed, low-level fluorescence events detected by the PMT. The SIB232 incorporates Vertilon's latest circuitry for preamplification and discrimination of the H7260's last dynode signal. These features allow the fluorescence event itself to generate the trigger for data collection from the PMT — no external signal is required. Vertilon's last dynode signal processing circuitry has been successfully implemented on several of its other sensor interface products — many of which have been employed in diverse applications like PET scanners and radiation detection systems. The introduction of the SIB232 builds on the success of these products to create a high performance readout system for spectral data from fluorescence events. When connected to a Vertilon PhotoniQ IQSP580 data acquisition system, the SIB232 achieves single photon resolution with an event pair resolution of 2.5 microseconds and trigger rates approaching 400 KHz. These performance metrics make the SIB232 extremely well-suited for typical fluorescence detection applications including flow cytometry, confocal microscopy, and bioaerosol detection.

Vertilon says the SIB232 is in production and available today. The company also manufactures sensor interface boards for other commonly available multianode PMTs, silicon photomultipliers, and avalanche photodiode arrays like the Hamamatsu H8711, H7546B, H8500D, and R5900U-L16, Photonis / Burle XP85013, Sensl SPMArray, and Pacific Silicon Sensors AD-LA-16-9-DIL18 avalanche photodiode array. Target applications for Vertilon's products include PET, single photon emission computed tomography (SPECT), high energy particle physics, gamma cameras, flow cytometry, confocal microscopy, small animal imaging, bioaerosol detection, and radiation detection.

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. Over the last seven years, 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, radiation detection, and confocal microscopy.

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