

NEWS

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Vertilon Launches MCPC618 Eight Channel High Speed Photon Counting System

*Specialized System for PMTs and Silicon Photomultipliers
Reaches Speeds up to Two Billion Photon Counts per Second*

WESTFORD, MA (August 10, 2010) – Vertilon Corporation (<http://www.vertilon.com>), a leader in high performance multichannel data acquisition systems for optical sensors, announced today that it has launched the PhotoniQ MCPC618 eight channel high speed photon counting system. Positioned as a complementary product to the company's line of charge integrating DAQ systems, the [MCPC618](#) is Vertilon's first data acquisition product for photomultiplier tubes (PMTs) and silicon photomultipliers (SiPMs) that uses photon counting as the primary signal measurement technique. By building on its experience with PMTs and SiPMs in low light applications, the company said that it developed the [MCPC618](#) to meet the needs of customers requiring precision ultra-low light level sensing at extremely high speeds. The instrument is designed to directly interface to high gain optical devices without the need for external preamplifiers or other electronics. Each independent channel is capable of resolving photon occurrences at an event pair resolution of less than four nanoseconds at sustained counting rates exceeding 250 MHz per channel. When triggered, signal count data is simultaneously acquired across all channels and transferred to a PC through a high speed USB connection. Data can be displayed on the PC using an included graphical user interface or streamed to the user's real-time custom software application. The [MCPC618](#) also includes a unique *microGate* feature that when synchronized to a user-supplied timing signal allows the counting process to be selectively enabled or disabled with sub-nanosecond resolution. This feature is particularly useful in applications where counting must be inhibited while an excitation source such as a laser is active. "The MCPC618 is a perfect complement to our PhotoniQ product line," said Vincent Palermo, President of Vertilon. "With the introduction of this product, we now offer the most comprehensive line of data acquisition products for PMTs and silicon photomultipliers." Targeting particle sensing, DNA sequencing, fluorescence detection, LIDAR, and other low light level applications, the MCPC618 is 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. 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, DNA sequencing, and confocal fluorescence microscopy.

For product information, contact:

Sales Department
Vertilon Corporation
(978) 692-7070 ext 1#
<http://www.vertilon.com>

For marketing information, contact:

Product Marketing
Vertilon Corporation
(978) 692-7070 ext 5#

Vertilon contact:

Vincent Palermo
Vertilon Corporation
66 Tadmuck Road
Westford, Massachusetts 01886
(978) 692-7070 ext 7#

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