

## Models DPC-1 and DPC-2 Digital Photon Counting Systems



*The DPC-1 and DPC-2 are cost effective, high performance digital photon counting systems for TTL-output photomultiplier tubes. It features C&L Instruments' proven PMT detection technology. It includes our 'Plug and Play' Model PC-DAQ data acquisition PC card that supports pulse counting data acquisition. Windows®-based software is also supplied for data acquisition and analysis.*

The DPC-1 Digital Photon Counting system includes a PCI format PC card and our *FluorMeasure*<sup>™</sup> software. It features easy connection to photon-counting PMT modules having TTL output pulses. The DPC-1 PCI card is easy to install and is Plug and Play compatible. It provides a simple and affordable solution for ultra-low light measurements.

*FluorMeasure*<sup>™</sup> data acquisition software is Windows®-based and is powerful, yet easy to use for fluorescence or other photon-counting applications. Data can be viewed in real-time and stored to disk. Real-time analog output of the PMT data, with 5 levels of gain adjustment, is available as an added option.

The DPC-2 is similar to the DPC-1, except that a Breakout Box is provided and the system can acquire 8 channels of analog data simultaneously with photon counting data. Both systems support automated time-lapse measurements and external triggering of data acquisition.

The DPC-1 and DPC-2 can be easily interfaced with C&L Instruments detectors. Our Model D48 detector combines an end-on PMT with a computer controlled filter wheel and shutter for gated multiwavelength photometry detection. Our Models DPC-BA & DPC-MA detectors feature an end-on PMT housed in an enclosure with a C-Mount adapter. These detectors can be easily attached to microscopes or fiber optics.

### SPECIFICATIONS\*:

Computer interface: PCI bus card, 32 Bit

Operating system: Windows® 98se/2000/XP.

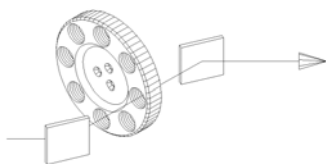
Minimum system requirements: Pentium® II, 450 MHz, 32 MB RAM.

PMT input: SMA connector, TTL logic, 10 MHz maximum, 20 ns minimum pulse width.

Analog input (DPC-2 only): 8 channels multiplexed, -5 to +5 Volts, 11 bit resolution.

Analog output (optional): 12 bit, 1 millivolt per photon count, 4.096 volts max, gain adjustable.

Photon counting: 2 points/second to 1,000 points/second, 16 bit counter.



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