

Data Sheet

SpectraHub™

Spectrometer / Detector Interface

Features:

- **USB and RS-232C interface**
- **PMT high voltage control**
- **Compatible with Acton's SpectraSense software**
- **Photon Counting Compatibility**

The SpectraHub™ is designed as an economical spectrometer / detector interface that is compatible with all Acton Research PMT, Silicon, and InGaAs single channel detection systems.

The convenience of the USB interface feature coupled with SpectraSense software and the new Acton Research Series 2000 SpectraPro imaging monochromators permits scanning spectroscopy and data acquisition through a single connection to the computer. Detectors connect directly to the SpectraHub. For multiple detectors operating simultaneously, simply add one SpectraHub per detector, linked together through USB and the external trigger connections.



Specifications:

Number of input channels: 1
Synchronized multi-channel operation provided with multiple SpectraHubs

Data acquisition: 20 Bit A/D

Input Ranges: X1, X2, X5, X50
Current – negative and bipolar
Voltage – negative and bipolar

PMT voltage control circuits (for use PD-471 or PHV-400)

Integration time: 10ms to 65 seconds with true integration for current and voltage input

Photon counting compatibility with PD-473 or other TTL source: 20ns pulse pair resolution

Computer control through USB or RS-232 with built in 2 port USB 1.1 hub

USB connectivity with SpectraPro 2000 monochromators. Operation with older model SpectraPro monochromators is supported through SpectraSense and RS-232 connections to the computer.

Computer requirements: Windows 98, 2000 or XP

External Triggers: 1 input and 1 output for synchronizing data acquisition with user experiment

Shutter Control: TTL output

Power: 100–240 VAC, 50 / 60 Hz or 12VDC

Dimensions: 7" w x 2.3" h x 5.3" d (178mm x 58mm x 135mm) nominal

Weight: 2lbs (0.9kg)

rev.4



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