

Model RS-DAQ Instrument Controller



The Model RS-DAQ Controller is a stand-alone system integrator that controls both the Model S48D Illumination Source and the Model D48 Detector Module. The Controller interfaces with these components as part of a complete multiwavelength fluorescence system. It is programmed via a keypad or by RS-232 download. This versatile controller supports machine control, pulse counting and analog data acquisition.

Typical Uses

1. **Add PMT-based photometry to an existing imaging system.** If you already have a fluorescence imaging system, the Model RS-DAQ controller can be used to add photon counting to your system for rapid and sensitive multiwavelength fluorescence detection using the Model D48 Detector Module.
2. **Add a multiwavelength illumination source to your microscope.** If you are constructing an imaging system, the Model RS-232 controller will operate the Model S48D Illumination Source. After programming with the keypad, TTL pulses can be used to signal wavelength changes, making system integration easy and affordable.
3. **Use it as a standalone data acquisition system.** With software, the Controller can be used as a standalone pulse counter and analog data acquisition system.

The Model RS-DAQ Controller is a standalone microprocessor-based controller for instrument control and data acquisition. As a controller, it will operate the Model S48D Illumination Source and Model D48 Detector without a host computer. As a data acquisition system, it functions as a photon counter and analog data acquisition system.

The Controller is programmable via a keypad or by RS-232. Software for the Windows® operating system can be purchased separately to use the RS-232 port for external instrument control and for data acquisition. Alternatively, you can write software for data acquisition using your favorite programming environment. Simple commands sent using a terminal-emulation program can also be used to operate the Controller.

SPECIFICATIONS*:

Programming: Via keypad or RS-232 interface

RS-232 Interface: 57,600 baud maximum.

TTL input: To control external devices, positive logic.

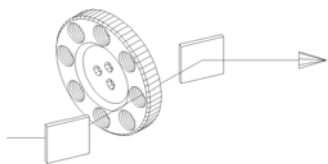
PMT input: BNC connector, TTL logic, 10 MHz maximum.

A/D Converter: BNC connectors, 8 channel multiplexed, single-ended, 0-5 Volts, 10 bit, 12 µsecond conversion.

Other I/O: DB-15 connectors to external devices; DB-9 output for external filter wheel position monitoring.

Size / Weight: 9.5 (w) X 3.5 (h) X 13 (d) inches, 5 lbs.

Power: 95-250 Volts, 47-63Kz, 0.6 Amps



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