

C&L Instruments, Inc. *Dye Fluorometer*

Multiwavelength Fluorescence System

The modern approach to fluorescence measurements requires *fast response, high spectral purity, and high light throughput* that you won't get from a monochromator. Designed to optimize results from today's dyes and probes, the C&L Instruments Dye Fluorometer is the cost effective solution for any fluorescence laboratory.



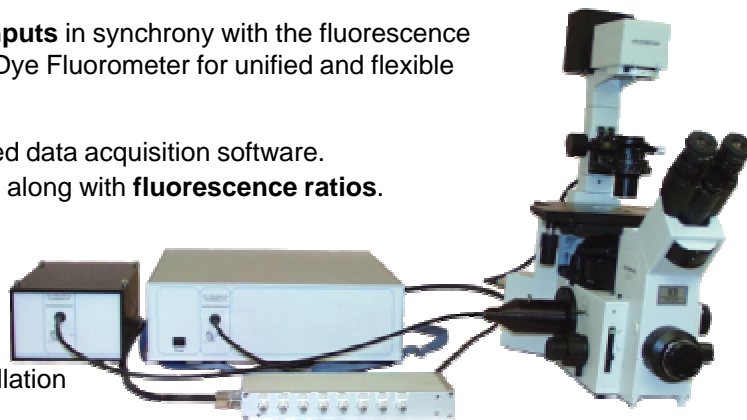
The C&L Dye Fluorometer uses a patent pending system of dual, computer controlled, synchronized filter wheels to achieve optimum performance from today's commercially available fluorescence dyes and probes. Packed with advanced features, it performs sensitive **multiwavelength** measurements in a simple and straightforward manner. Get ready for **dual excitation, dual emission, multiple dyes, FRET, GFP**, you name it. You are limited only by your ingenuity, not your fluorometer! The system is designed with the flexibility, simplicity and performance to make routine measurements truly routine.

The C&L Dye Fluorometer consists of two main modules:
An illuminator houses a 150 watt xenon lamp. The output intensity from the illuminator can be **precisely controlled** by software over a **50-fold range**. Each wavelength filter selection can have an independent intensity level.
A detector houses a sensitive end-on photomultiplier tube operating in the photon counting mode.

The illuminator and detector **connect seamlessly to your microscope** using light guides for optimum vibration free performance. It also connects to a cuvette accessory. Both modules contain Windows[®]-based computer controlled filter wheels, allowing for rapid sequential fluorescence measurements from up to **eight excitation-emission wavelength pairs**. Sampling times are user selectable from 1 millisecond to several seconds per wavelength. Filters and filter wheels are easily reconfigured for various routine measurements.

The C&L Dye Fluorometer can also **capture eight analog inputs** in synchrony with the fluorescence measurements so you can connect other instruments to the Dye Fluorometer for unified and flexible analysis of your data.

The C&L Dye Fluorometer includes powerful Windows[®]-based data acquisition software. Fluorescence and analog data can be monitored in **real time** along with **fluorescence ratios**. Multiple view windows can be opened to selectively monitor data from several wavelength channels. Data analysis software provides many advanced analysis routines, and the data can be easily exported to other programs. Shown here are the detector module, illumination source and electronics interface in a typical installation on an Olympus IX series Fluorescence Microscope.



Unleash the power of the Dye Fluorometer in your lab today.



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