



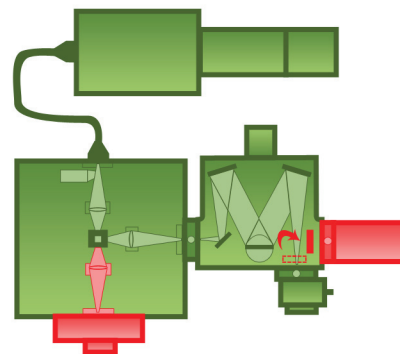
QuantaMaster™ 80

High Speed Spectrofluorometer with Q-25 LED Lifetime Upgrade

Specifications

Steady State

Excitation Wavelength Range	290–650 nm
Wavelength Selection Speed	< 2 milliseconds point-to-point
Data Acquisition Rate	1 kHz single wavelength
Light Source	High power continuous Xenon arc lamp
Repetition Rate	1 to 200 Hz (software controllable)
Focal Length	150 mm
Bandpass	0–25 nm, continuously adjustable (computer control available)
Wavelength Accuracy	± 0.25 nm
Resolution	± 0.25 nm
Light Delivery	2 m Liquid Light Guide
Detection	Photon counting/analog
System Control	Computer interface with spectroscopy software



Lifetime

Lifetime Range	100 ps to 3 μ s
Excitation Range	260 to 670 nm
Pulse Width	1.5 ns (typical)
Emission Range	200 to 680 nm (optional to 900 nm)
Detection	Time domain, patented stroboscopic technique
Sensitivity	< 1 nM fluorescein, approx. 10 nM NATA
Acquisition Time	20 s (sample dependent)
Time Scale	Linear, arithmetic progression and logarithmic
Acquisition Mode	Sequential or random