



QuantaMaster™ 40

Steady State Spectrofluorometer with Q-25 LED Lifetime Upgrade

Specifications

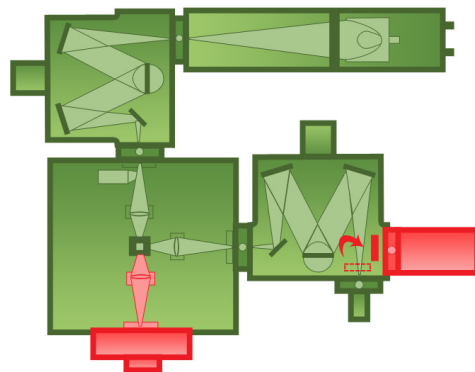
Steady State

Emission Range	185 to 680 nm (optional to 900 nm)
Detection Limit	460 attomolar
Signal-to-Noise Ratio	10000:1 or better (350 nm excitation, 5 nm spectral bandpass, 1s integration time)
Steady State Light Source	High power continuous Xenon arc lamp
Monochromators	Czerny-Turner design
Focal Length	200 mm
Excitation Grating	1200 line/mm 300 nm blaze
Emission Grating	1200 line/mm 400 nm blaze
Optional Grating	75–2400 line/nm and holographic models available
Bandpass	0–24 nm, continuously adjustable from computer
Wavelength Accuracy	± 0.5 nm
Resolution	0.06 nm
Detection	Photon counting/analog
System Control	Computer interface with spectroscopy software

Lifetime

Lifetime Range	100 ps to 3 μs
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

Measure lifetimes as short as Picoseconds!



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