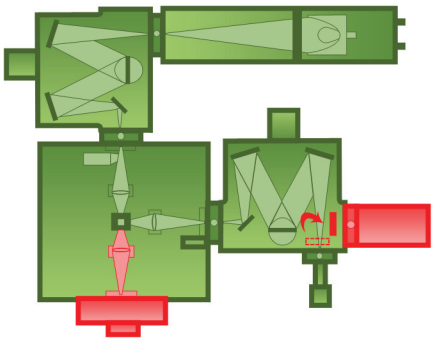
QuantaMaster™ 50

NIR InGaAs Spectrofluorometer with Q-25 LED Lifetime Upgrade

Specifications

NIR

Sensitivity	Singlet oxygen generated by 0.1 µM rose bengal in MeOH
Light Source	High power continuous Xenon arc lamp
Monochromators	Czerny-Turner design
Focal Length	200 nm
Excitation Grating	1200 line/mm 300 nm blaze
Emission Grating	600 line/mm 1250 nm blaze
Optional Grating	75–2400 line/nm and holographic models available
Bandpass	0–25 nm excitation, 0–50 nm emission, continuously adjustable (computer control available)
Wavelength Accuracy	± 1 nm excitation, ± 2 nm emission
Resolution	0.5 nm excitation, 1.0 emission
InGaAs Detector	500 to 1700 nm (1900 nm or 2200 nm optional)
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

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