



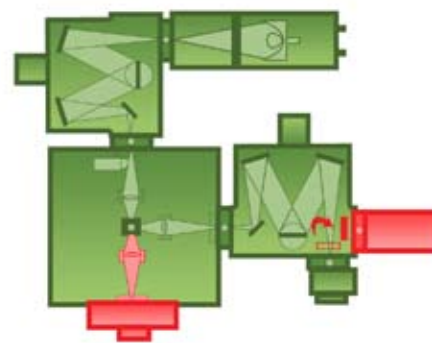
QuantaMaster™ 30

Phosphorescence Spectrofluorometer with Q-25 LED Lifetime Upgrade

Specifications

Phosphorescence

Detection Limit	50 femtomolar
Minimum Lifetime	400 ns
Emission Range	185 nm to 680 nm (optional to 900 nm)
Data Acquisition Rate	0.2 points/sec to 60 points/sec
Light Source	High power Xenon flash lamp
Repetition Rate	1 to 300 Hz (software controllable)
Pulse Width	1–2 μ s
Monochromators	Czerny-Turner design
Focal Length	200 nm
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	0–25 nm, continuously adjustable (computer control available)
Detection	Gated (gate width and position software controlled)
Temporal Resolution	20 ns
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

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