



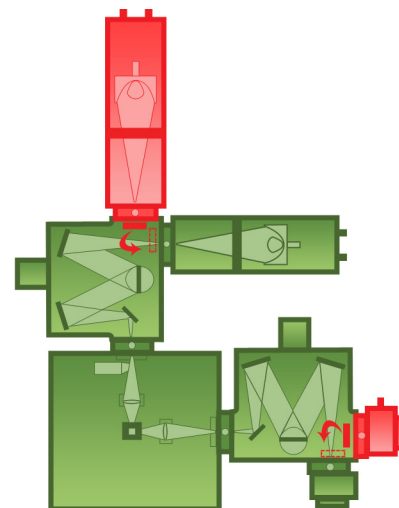
QuantaMaster™ 30

Phosphorescence Spectrofluorometer with Q-5 Steady State 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



Steady State

Detection Limit	460 attomolar
Data Acquisition Rate	50,000 points/sec to 1 points/100 sec
Steady State Light Source	High power continuous Xenon arc lamp
Detection	Photon counting/analog

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