



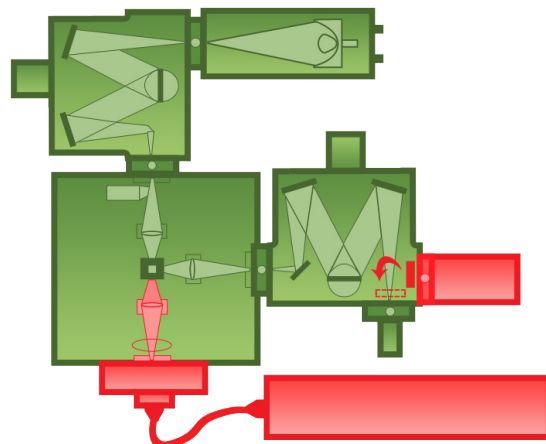
# QuantaMaster™ 30

Phosphorescence Spectrofluorometer with Q-11a Laser 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 $\mu$ 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 picoseconds to 50 microseconds
Wavelength Range	360 to 990 nm (depending on dye used) (235 to 990 nm with optional frequency doubler)
Pulse Width	800 picoseconds
Emission Range	185 to 680 nm (optional to 900 nm)
Detection	Time domain, patented stroboscopic technique
Repetition Range	2 to 20 Hz



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