



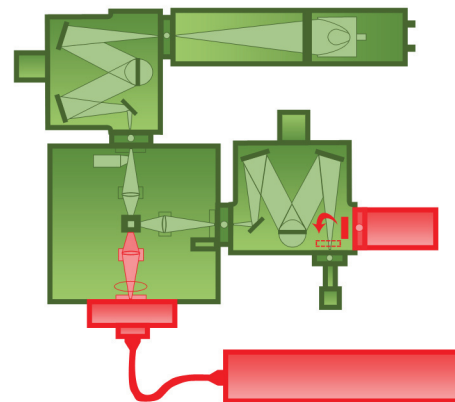
# QuantaMaster™ 50

NIR InGaAs Spectrofluorometer with Q-11a Laser Lifetime Upgrade

## Specifications

### NIR

Sensitivity	Singlet oxygen generated by 0.1 $\mu$ M 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	$\pm 1$ nm excitation, $\pm 2$ 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 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