



QuantaMaster™ 40

Steady State Spectrofluorometer with Q-11a Laser Lifetime Upgrade

The Q-11a Laser Lifetime add-on for QuantaMaster™ systems includes a nitrogen pumped dye laser source to provide the excitation illumination, coupling optics, a stroboscopic detector and flipping mirror.

Specifications

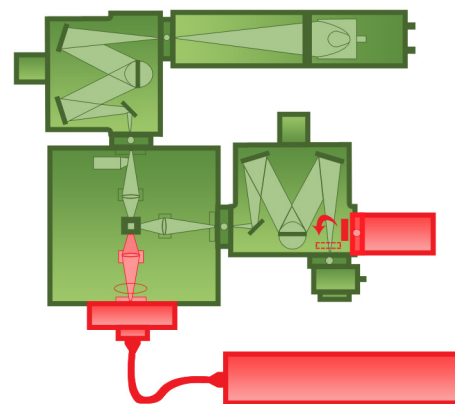
Steady State

Emission Range	185 to 680 nm (optional to 900 nm)
Detection Limit	460 attomolar
Steady State 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	1200 line/mm 400 nm blaze
Optional Grating	75–2400 line/nm and holographic models available
Bandpass	0–24 nm, continuously adjustable (computer control available)
Wavelength Accuracy	± 0.25 nm
Resolution	0.25 nm
Detection	Photon counting/analog
System Control	Computer interface with spectroscopy software

Lifetime

Lifetime Range	100 picoseconds to 50 microseconds
Wavelength Range	360 to 1000 nm (depending on dye used) (235 to 1000 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

*Add fluorescence lifetime capability from 331–1000 nm
(235 to 1000 nm optional)*



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