



QuantaMaster™ 40

Steady State Spectrofluorometer with Q-25 LED Lifetime Upgrade

The Q-25 Lifetime add-on for QuantaMaster™ systems uses a LED light source for excitation. Included are required optics and adaptors, strobe detector and a flipping mirror for the emission monochromator. LED sources are available but not included.

Specifications

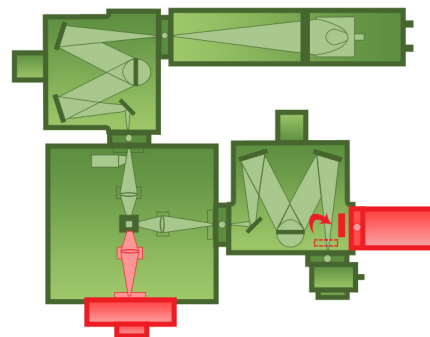
Steady State

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|---------------------------|--|
| Emission Range | 185 to 680 nm (optional to 900 nm) |
| Detection Limit | 460 attomolar |
| Signal-to-Noise Ratio | 10000:1 or better (350 nm excitation, 5 nm spectral bandpass, 1s integration time) |
| Steady State Light Source | High power continuous Xenon arc lamp |
| Monochromators | Czerny-Turner design |
| Focal Length | 200 mm |
| Excitation Grating | 1200 line/mm 300 nm blaze |
| Emission Grating | 1200 line/mm 400 nm blaze |
| Optional Grating | 75–2400 line/mm and holographic models available |
| Bandpass | 0–24 nm, continuously adjustable from computer |
| Wavelength Accuracy | ± 0.25 nm |
| Resolution | 0.25 nm |
| Detection | Photon counting/analog |
| System Control | Computer interface with spectroscopy software |

Lifetime

| | |
|------------------|--|
| Lifetime Range | 100 ps to 3 μs |
| 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 |

Measure lifetimes as short as Picoseconds!



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