



QuantaMaster™ 40

Steady State Spectrofluorometer

The QuantaMaster™ fluorescence spectrofluorometer series from Photon Technology International offers high performance and the flexibility of PTI's modular "Open Architecture" design.



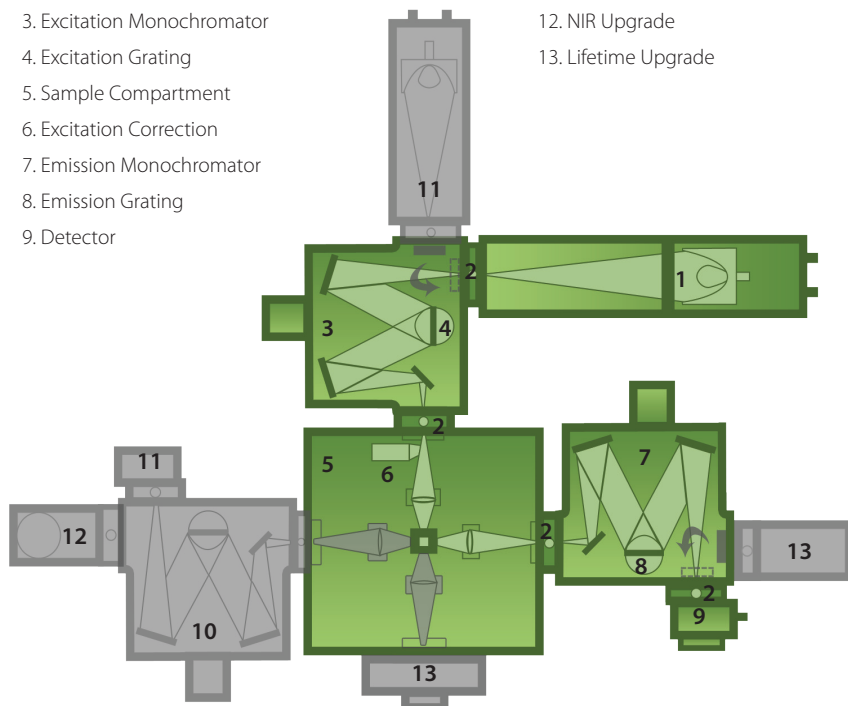
The QuantaMaster™ 40 steady state spectrofluorometer is the most sensitive bench-top fluorometer on the market today. Its signal to noise is 10,000:1, allowing the most minute traces of fluorescent materials to be detected and identified in mixtures. Together with PTI's FelixGX software, the QuantaMaster™ 40 will meet your highest demands and be welcomed in a multiple user environment as well. So, whether you are a beginner, or an experienced fluorescence spectroscopist, the QuantaMaster™ 40 is designed to meet all of your needs and your budget!

STANDARD SYSTEM

1. High Intensity Continuous Xenon Lamp
2. Adjustable Slits
3. Excitation Monochromator
4. Excitation Grating
5. Sample Compartment
6. Excitation Correction
7. Emission Monochromator
8. Emission Grating
9. Detector

OPTIONAL UPGRADES

10. Dual Emission (T-format)
11. Phosphorescence Upgrade
12. NIR Upgrade
13. Lifetime Upgrade



Applications

- Protein folding
- Milliseconds kinetics
- DNA binding
- Protein-protein interactions
- Protein-drug interactions
- FRET
- Polarization/anisotropy
- Stopped flow
- Chemiluminescence
- Bioluminescence
- And many more!

Accessories

- Peltier sample heater/cooler with rapid temperature control
- Solid sample holder
- Powdered sample holder
- Cold finger dewar
- Muscle strip Accessory
- Microcuvette
- Polarizers
- Four-position sample holder
- Remote sensing accessory
- Integrating Sphere
- Stopped Flow Accessory
- Titrator

Upgrade Options

- Dual Emission (T-format)
- Phosphorescence Upgrade
- NIR Upgrade
- Lifetime Upgrade





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Specifications

Detection Limit	460 attomolar of fluorescein solution at 0.1 M NaOH
Signal-to-Noise Ratio	10000:1 or better (350 nm excitation, 5 nm spectral bandpass, 1s integration time)
Data Acquisition Rate	1,000,000 points/sec to 1 points/ 100 sec
Emission Range	185 nm to 680 nm (optional to 900 nm)
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/nm and holographic models available
Bandpass	0–24 nm, continuously adjustable (computer control available)
Wavelength Accuracy	± 0.5 nm
Monochromator Step Size	Computer controlled, micro stepping to 1/32 minimum step size
Resolution	0.06 nm
Detection	Photon counting/analog
System Control	Computer interface with spectroscopy software
Dimensions	38 x 30 inches



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