



QuantaMaster™ 80

High Speed Spectrofluorometer



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

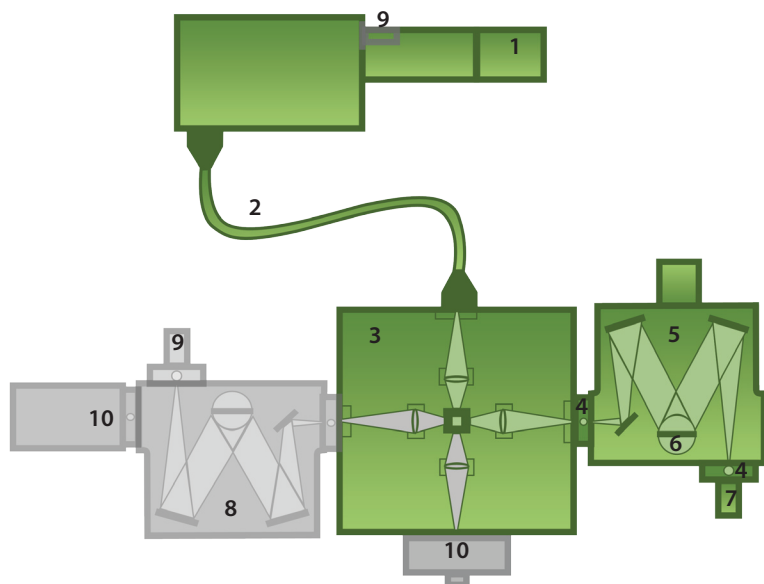
The QuantaMaster™ 80 UV VIS Rapid Excitation is the latest high-speed multi-wavelength ratio fluorescence system from PTI. It incorporates our patented DeltaRAM X™ random access monochromator into our standard steady state spectrofluorometer to allow for rapid ratiometric measurements. Together with PTI's spectroscopy software, the QuantaMaster™ 80 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™ 80 is designed to meet all of your needs and your budget!

STANDARD SYSTEM

1. DeltaRAM X™
2. Liquid Light Guide
3. Sample Compartment
4. Adjustable Slits
5. Emission Monochromator
6. Emission Grating
7. Detector

OPTIONAL UPGRADES

8. Dual Emission (T-format)
9. NIR Upgrade
10. Lifetime Upgrade



Applications

- Intracellular ion concentrations (Ca⁺⁺, pH, etc.)
- FRET
- Membrane fluidity
- Beta blockers
- RNA and DNA
- Membrane potential
- Multiple probe experiments
- Oxidants
- Steady state fluorometry
- 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)
- NIR Upgrade
- Lifetime Upgrade
- Fluorescence Microscopy





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Specifications

Signal-to-Noise Ratio	6000:1 or better
Data Acquisition Rate	1000 points/sec to 1 point/100 sec
Emission Range	180 nm to 680 nm (optional to 900 nm)
Light Source	High efficiency continuous Xenon arc lamp
Wavelength Range	180 nm to 24 microns, continuously tunable (useful illumination wavelength range dependent on grating and lamp; useful detection wavelength range dependent on grating and photomultiplier tube)
	75–2400 line/nm and holographic models available
Bandwidth	0 to 24 nm, continuously adjustable (computer control available)
Wavelength Accuracy	± 0.25 nm
Wavelength Resolution	± 0.25 nm
Light Delivery	2 mm liquid light guide
System Control	Computer interface with spectroscopy software



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