

PTI LPS-221B
Integrated Igniter



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**Limited Availability
Used and in Excellent Condition**

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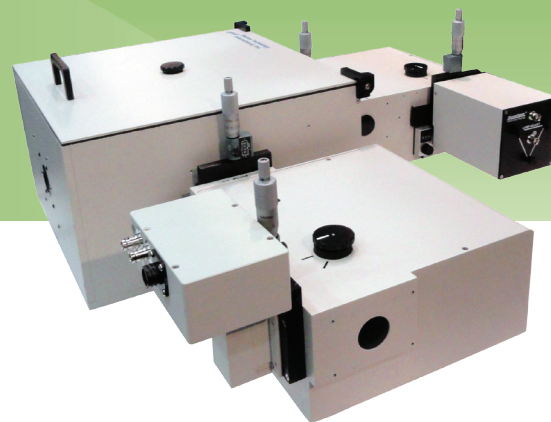
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QuantaMaster™ 30

Phosphorescence/Fluorescence Spectrofluorometer



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

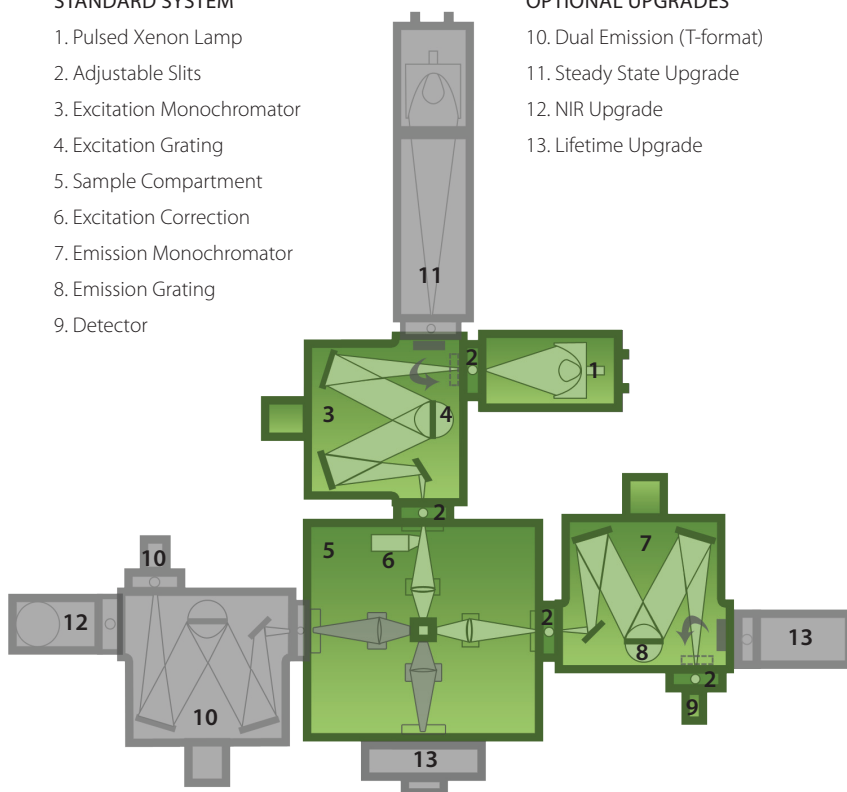
The QuantaMaster™ 30 Phosphorescence/Fluorescence spectrofluorometer utilizes a pulsed xenon source for excitation, which allows not only spectral and kinetic fluorescence and phosphorescence measurements, but also the measurement of lifetimes greater than 1 microsecond. Together with PTI's spectroscopy software, the QuantaMaster™ 30 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™ 30 is designed to meet all of your needs and your budget!

STANDARD SYSTEM

1. Pulsed 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. Steady State Upgrade
12. NIR Upgrade
13. Lifetime Upgrade



Applications

- Gated lanthanide spectra and lifetimes
- LRET
- Room temperature protein phosphorescence
- Low temperature phosphorescence spectra and lifetimes
- Protein folding/unfolding
- Protein-protein interactions
- Protein-drug interactions
- FRET
- Luminescence of phosphors and inorganic materials
- Polarization/anisotropy
- 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)
- Steady State Upgrade
- NIR Upgrade
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Photon Technology International

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QuantaMaster™ 30

Phosphorescence/Fluorescence Spectrofluorometer

Specifications

Detection Limit	50 femtomolar
Signal-to-Noise Ratio	1500:1 or better (350 nm excitation, 10 nm spectral bandpass, 1 s integration time)
Minimum Lifetime	1 μ s (with deconvolution)
Emission Range	185 nm to 680 nm (optional to 900 nm)
Data Acquisition Rate	up to 300 points/sec
Light Source	High power Xenon flash lamp
Repetition Rate	1 to 300 Hz (software controllable)
Pulse Width	1–2 μ s
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
Wavelength Accuracy	\pm 0.5 nm
Resolution	0.06 nm
Detection	Single-Shot Transient Digitizer (SSTD)
Temporal Resolution	1 μ s
System Control	Computer interface with spectroscopy software
Dimensions	32 x 26 inches

PTI has a policy of continuous product development and reserves the right to amend specifications without prior notice.



Photon Technology International

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