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TECHNOLOGY GROUP

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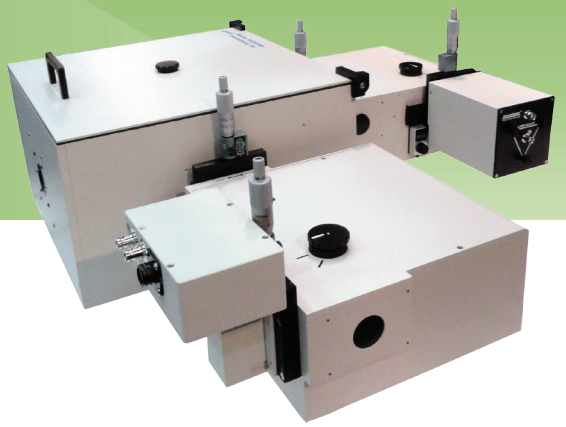
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Find the *Horiba / PTI QuantaMaster* at our website: ***Click HERE***

# 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.***

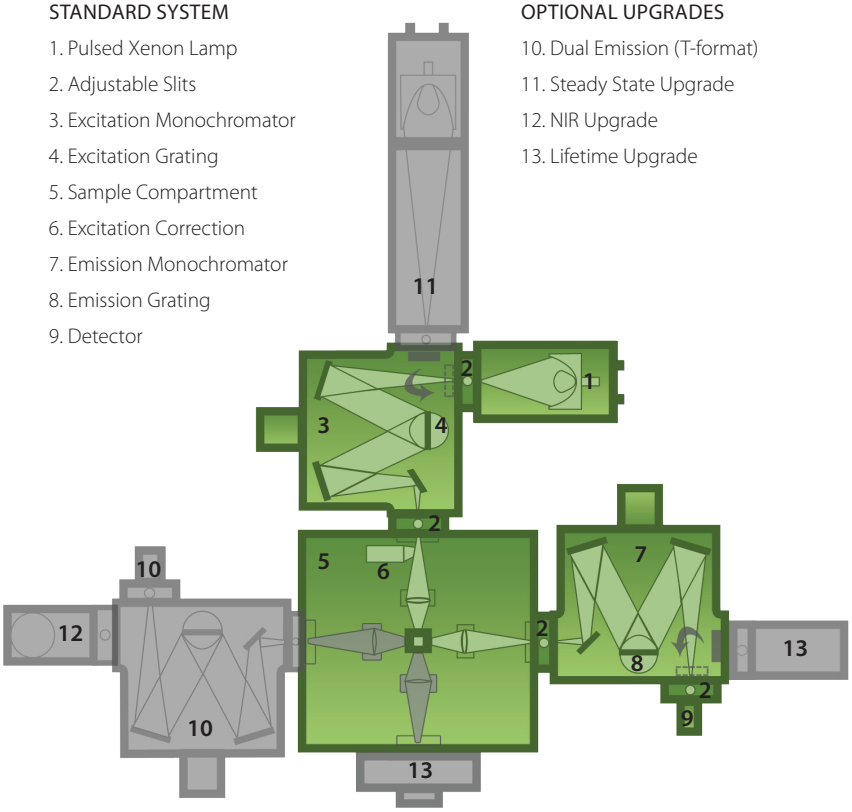
The QuantaMaster™ 30 Phosphorescence/Fluorescence spectrofluorometer utilizes a pulsed xenon source for excitation, which allows not only spectral and kinetic fluorescence and phosphorescence measurements, but also the measurement of lifetimes greater than 1 microsecond. Together with PTI's spectroscopy 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
- Lifetime Upgrade



Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

# 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, 1s integration time) |
| Minimum Lifetime | 1 µs (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 µs |
| 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 | ± 0.5 nm |
| Resolution | 0.06 nm |
| Detection | Single-Shot Transient Digitizer (SSTD) |
| Temporal Resolution | 1 µs |
| 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.

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**Artisan Technology Group** is an independent supplier of quality pre-owned equipment

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