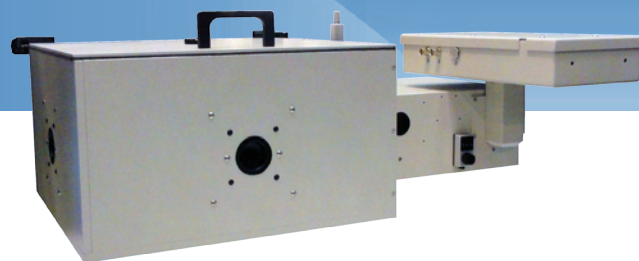




TimeMaster™

TM-200 LED-Based Strobe Lifetime Spectrofluorometer



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

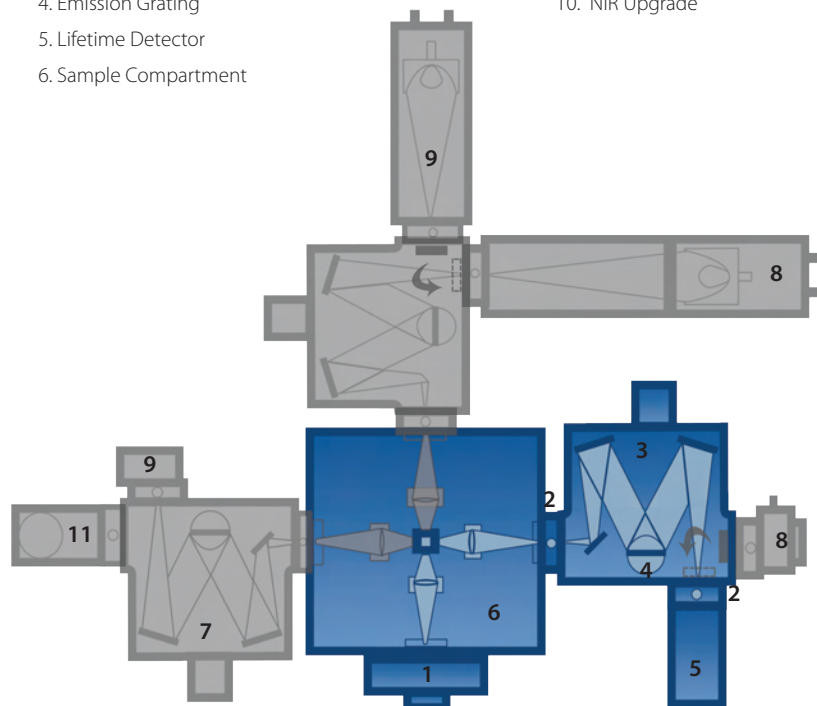
The TimeMaster™ TM-200 is an L-format cuvette-based lifetime spectrofluorometer capable of making fast and simple fluorescence lifetime measurements down to 100 picoseconds! The TM-200 spectrofluorometer is designed for the user who needs the most versatile and modular L-format system for the time-resolved fluorescence spectroscopy using a LED light source.

STANDARD SYSTEM

1. LED
2. Adjustable Slits
3. Emission Monochromator
4. Emission Grating
5. Lifetime Detector
6. Sample Compartment

OPTIONAL UPGRADES

7. Dual Emission (T-format)
8. Steady State Upgrade
9. Phosphorescence Upgrade
10. NIR Upgrade



Applications

- Intrinsic protein fluorescence
- FRET
- Quantum dots
- DNA binding
- Fluorescence lifetimes
- Protein-protein interactions
- Protein-drug interactions
- Anisotropy decays
- Molecular photophysics
- Photosynthesis
- Semiconductors, glasses and ceramics
- And many more!

Accessories

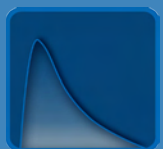
- Peltier sample heater/cooler with rapid temperature control
- Solid sample holder
- Powdered sample holder
- Cold finger dewar
- Muscle strip Accessory
- Microcuvette
- Polarizers
- Four-position sample holder
- Titrator

Upgrade Options

- Dual Emission (T-format)
- Steady State Upgrade
- Phosphorescence Upgrade
- NIR Upgrade



Photon Technology International



TimeMaster™

TM-200 LED-Based Strobe Lifetime Spectrofluorometer

Specifications

| | |
|------------------|--|
| Lifetime Range | 100 ps to 3 μ s |
| Excitation Range | 260 to 670 nm |
| Pulse Width | 1.5 ns (typical) |
| Emission Range | 185 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 |



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