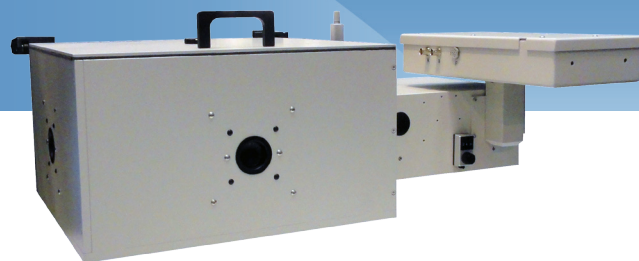


# TimeMaster™

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.*

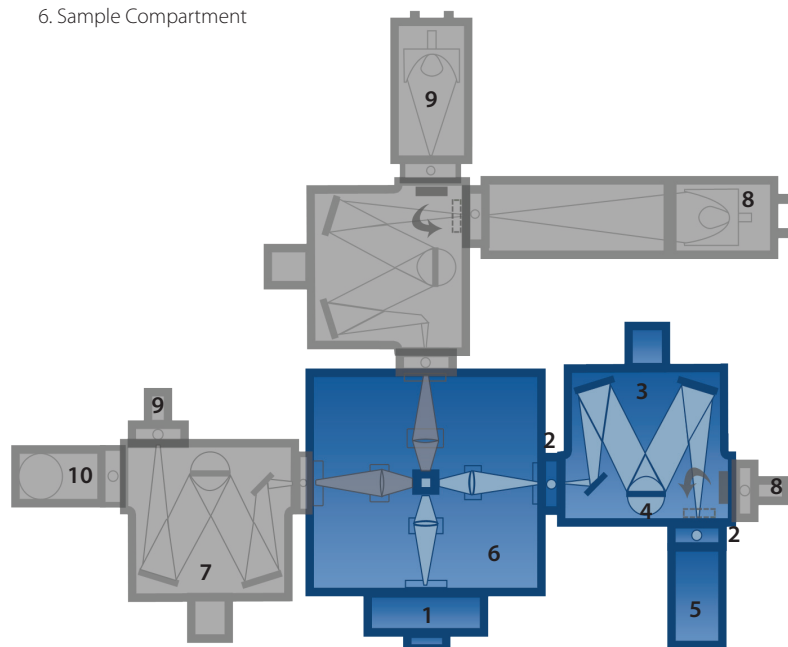
The TimeMaster™ TM-200 is an L-format cuvette-based lifetime spectrofluorometer capable of making fast and simple fluorescence lifetime measurements down to 100 picoseconds! The TM-200 spectrofluorometer is designed for the user who needs the most versatile and modular L-format system for the time-resolved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

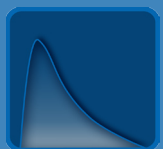
- Peltier sample heater/cooler with rapid temperature control
- Solid sample holder
- Powdered sample holder
- Cold finger dewar
- Muscle strip accessory
- Microcuvette
- Polarizers
- Four-position sample holder
- Titrator

## 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 $\mu$ 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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