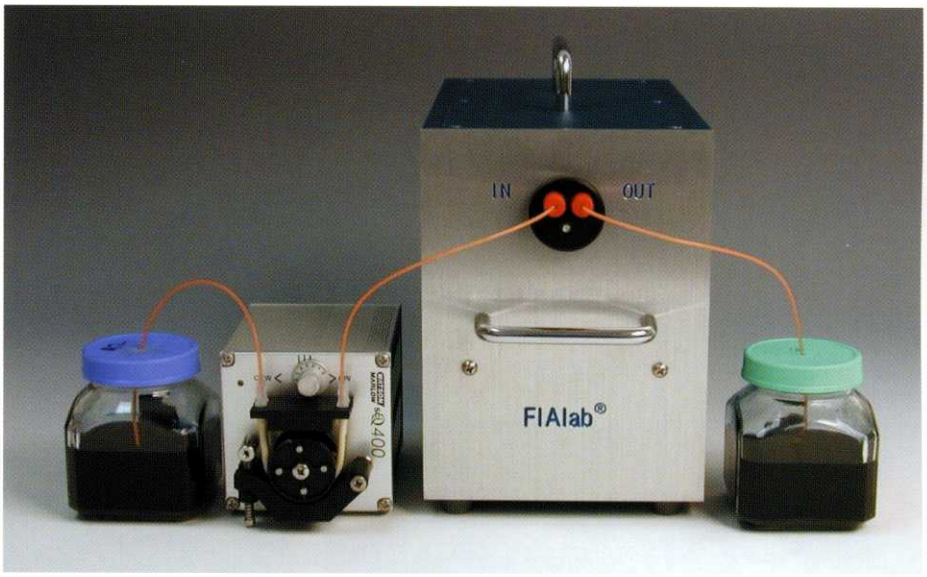
New Product Showcase

The PMT-FL Flow Through Fluorometer is an ultra sensitive photomultiplier-based flow through detection system ideally suited for very low fluorescence, chemiluminescence or bioluminescence measurements. The heavy-duty chemical resistant housing is built to withstand industrial environments. The PMT-FL also accepts a standard 1-cm path length cuvette for manual measurements.



PMT-FL shown with an S2-Mini Peristaltic Pump

Limits of Detection:

2 parts per trillion - measured with Fluorescein @ 250 msec integration and internal tungsten lamp

27 parts per trillion - measured with 4 MU @ 250 msec integration time and internal mercury vapor lamp

Configuration Options:

Optional internal excitation sources:
Quartz tungsten lamp
Light Emitting Diodes (including UV at 370 nm)
Laser Diodes (red and green)
Mercury Vapor UVA, UVB and UVC emission lamps

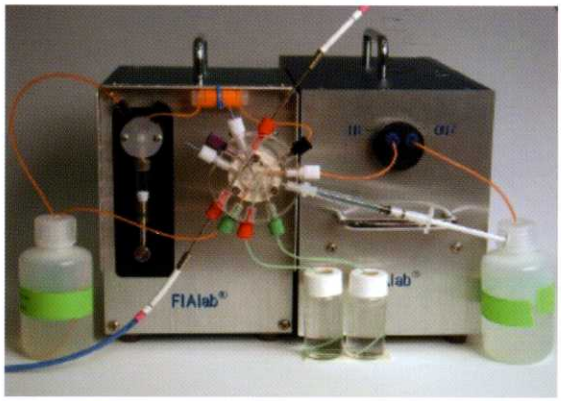
Optional fiber optic excitation sources :
All the above + Deuterium lamp

Additional options:
Flow Through Cuvette Heating system
Simultaneous absorbance and fluorescence measurements

Specifications:

Photon counting PMT detector
310nm - 750nm spectral range
Pulse pair resolution: 10ns
Responsivity @ 400nm: 5 X 10^{17} cps/Watt
PMT dynamic range: 2.0E06

The PMT-FL is built to order with either an internal excitation lamp or an SMA terminated fiber optic cable for use with an external lamp. Emission and excitation filters are mounted in user accessible slots inside the enclosure, allowing for quick removal for exchange.



The PMT-FL is fully compatible with the MicroSIA system