



QuantaMaster™ 40

Steady State Spectrofluorometer with Q-9b Fluorescence Microscopy Upgrade

The Q-9b Fluorescence Microscopy add-on for QuantaMaster™ systems includes a liquid light guide to couple the excitation source to a microscope, for detection, another liquid light guide is mounted to the exit port of a PTI photometer that is mounted on the C-port of the microscope. The emission signal is transmitted back to the second entrance port of the emission monochromator of the system. Flipping mirrors are used to select whether the light is directed from the sample compartment or the microscope. (C mount and adaptor for microscope required but not included)

Specifications

Steady State

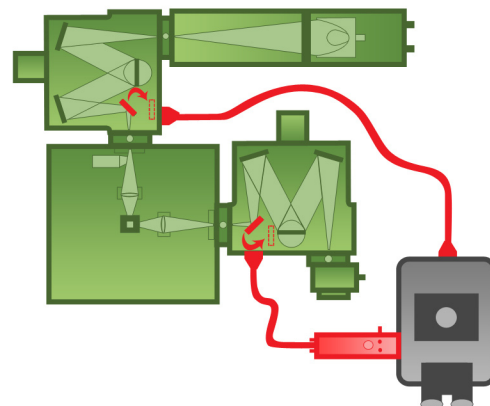
Emission Range	185 to 680 nm (optional to 900 nm)
Detection Limit	460 attomolar
Steady State Light Source	High power continuous Xenon arc lamp
Monochromators	Czerny-Turner design
Focal Length	200 mm
Excitation Grating	1200 line/mm 300 nm blaze
Emission Grating	1200 line/mm 400 nm blaze
Optional Grating	75–2400 line/nm and holographic models available
Bandpass	0–24 nm, continuously adjustable (computer control available)
Wavelength Accuracy	± 0.25 nm
Resolution	0.25 nm
Detection	Photon counting/analog
System Control	Computer interface with spectroscopy software

Fluorescence Microscopy

Liquid Light Guide

Core Diameter	2 mm
Length	2 meters
N.A.	0.59
Transmission Range	280 to 700 nm (300 to 900 nm available)

For selection of emission area on microscope



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