



# QuantaMaster™ 40

Steady State Spectrofluorometer with Q-9a Fluorescence Microscopy Upgrade

The Q-9a Fluorescence Microscopy add-on for QuantaMaster™ systems includes a liquid light guide to couple the excitation source to a microscope and a excitation flipping mirror. For detection, another liquid light guide is mounted to the C-adaptor of the microscope and transmits the emission signal to the second entrance port of the emission monochromator of the system. (C mount and adaptor for microscope required but not included)

## Specifications

### Steady State

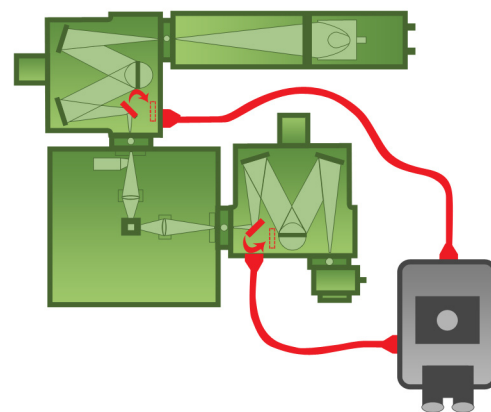
Emission Range	185 to 680 nm (optional to 900 nm)
Detection Limit	460 attomolar
Steady State Light Source	High power continuous Xenon arc lamp
Monochromators	Czerny-Turner design
Focal Length	200 nm
Excitation Grating	1200 line/mm 300 nm blaze
Emission Grating	1200 line/mm 400 nm blaze
Optional Grating	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)

*Allows emission wavelength selection when coupled to a microscope!*



Photon Technology International

USA: Photon Technology International, Inc., 300 Birmingham Road, PO Box 272 Birmingham, NJ 08011  
Tel: 609-894-4420, Fax: 609-894-1579, E-mail: [marketing@pti-nj.com](mailto:marketing@pti-nj.com), [www.pti-nj.com](http://www.pti-nj.com)

Canada: Photon Technology International, Inc., 347 Consortium Court, London, Ontario, N6E 2S8  
Tel: 519-668-6920, Fax: 519-668-8437, E-mail: [sales@pti-can.com](mailto:sales@pti-can.com)

UK: Photon Technology International, Inc., Unit M1 Rudford Industrial Estate, Ford Road, Ford, West Sussex BN180BF  
Tel: +44 (0) 1903 719555, Fax: +44 (0) 1903 725722. E-mail: [sales@pti-uk.co.uk](mailto:sales@pti-uk.co.uk)

Germany: PhotoMed GmbH, Inninger Str. 1, 82229 Seefeld, Germany,  
Tel: +49 (0) 81 5299 3090, Fax: +49 (0) 81 5299 3098, E-mail: [sales@photomed.com](mailto:sales@photomed.com)

Denmark: PhotoMed GmbH, Sondre Alle 2, 4600 Koge Denmark,  
Tel: +45 5666 3386, Fax: +45 81 56663381, E-mail: [sales@photomed.dk](mailto:sales@photomed.dk)