



QuantaMaster™ 40

Steady State Spectrofluorometer with Q-73 NIR Upgrade

The Q-73 NIR add-on for QuantaMaster™ systems uses the existing high intensity 75 watt xenon light source, excitation scanning monochromator and sample compartment but substitutes a high sensitivity TE-cooled InGaAs detector, electronics, lock-in amplifier and chopper for noise suppression, and includes an additional emission 600 groove grating blazed at 1.2 microns.

Specifications

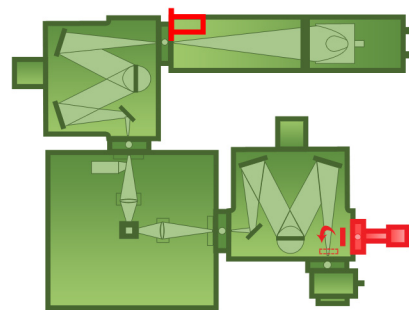
Steady State

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

NIR

Sensitivity	Singlet oxygen generated by 0.1 µM rose bengal in MeOH
Emission Grating	600 line/mm 1250 nm blaze
Optional Grating	75–2400 line/nm and holographic models available
Bandpass	0–48 nm emission, continuously adjustable (computer control available)
Wavelength Accuracy	± 1 nm emission
Resolution	0.5 emission
InGaAs Detector	500 to 1700 nm

Unmatched NIR capability from 500 to 1700 nm!



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, 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

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

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

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