



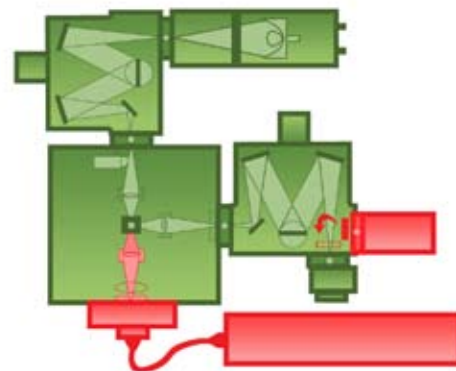
QuantaMaster™ 30

Phosphorescence Spectrofluorometer with Q-11a Laser Lifetime Upgrade

Specifications

Phosphorescence

Detection Limit	50 femtomolar
Minimum Lifetime	400 ns
Emission Range	185 nm to 680 nm (optional to 900 nm)
Data Acquisition Rate	0.2 points/sec to 60 points/sec
Light Source	High power Xenon flash lamp
Repetition Rate	1 to 300 Hz (software controllable)
Pulse Width	1–2 μ s
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	0–25 nm, continuously adjustable (computer control available)
Detection	Gated (gate width and position software controlled)
Temporal Resolution	20 ns
System Control	Computer interface with spectroscopy software



Lifetime

Lifetime Range	100 picoseconds to 50 microseconds
Wavelength Range	360 to 990 nm (depending on dye used) (235 to 990 nm with optional frequency doubler)
Pulse Width	800 picoseconds
Emission Range	185 to 680 nm (optional to 900 nm)
Detection	Time domain, patented stroboscopic technique
Repetition Range	2 to 20 Hz

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



Photon Technology International