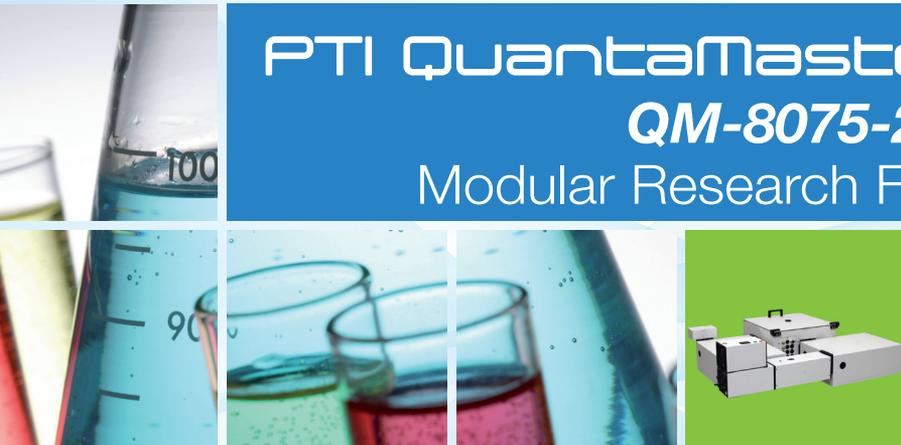


PTI QuantaMaster™ Series

QM-8075-21

Modular Research Fluorometer

ELEMENTAL ANALYSIS
FLUORESCENCE
GRATINGS & OEM SPECTROMETERS
OPTICAL COMPONENTS
CUSTOM SOLUTIONS
PARTICLE CHARACTERIZATION
RAMAN / AFM-RAMAN / TERS
SPECTROSCOPIC ELLIPSOmetry
SPR IMAGING



Most popular configuration for steady state and lifetime measurements

Key Features and Benefits

- ✓ >31,000:1 signal-to-noise ratio for highest guaranteed sensitivity specification
- ✓ FelixGX software for fully automated hardware and data acquisition protocols of all steady state and time-resolved experiments
- ✓ Triple grating monochromators for extended wavelength range
- ✓ Up to 4 light sources and 2 detectors, with dual entrance and dual exit monochromators, for added flexibility
- ✓ Large single or double additive, coma corrected, 350 mm focal length monochromators provide excellent stray light rejection
- ✓ World class TCSPC lifetime enhancements
- ✓ NIR steady state and phosphorescence lifetime detection to 5,500 nm

Overview

The PTI QuantaMaster 8000 series of modular research fluorometers from HORIBA Scientific offers the world's highest guaranteed sensitivity specification, plus many unique benefits.

The PTI QuantaMaster 8000 series is a multidimensional system for photoluminescence measurements. The foundation of a fluorescence spectroscopy laboratory is built on steady state intensity measurements such as wavelength scans, time-based experiments, synchronous scans and polarization. The PTI QuantaMaster 8000 series ensures you get the best possible results for all these measurements with the highest sensitivity, spectral resolution and stray light rejection. This level of sensitivity is achieved using a unique xenon illuminator, providing safety, cost, and energy consumption benefits not found amongst competitors. These conditions make the PTI QuantaMaster 8000 series more than capable of meeting the highest demands of research.

The PTI QuantaMaster 8000 series is adaptable to every research need, with additions such as TCSPC lifetimes, upconversion lasers and phosphorescence detection up to 5,500 nm. Using various pulsed light source allows for not only spectral and kinetic fluorescence and phosphorescence measurements, but also the measurement of lifetimes in the microsecond to seconds range. This addition is especially beneficial when using fluorescent probes prone to photobleaching, and when characterizing inorganic material with longer lifetimes. The modular design of the new PTI QuantaMaster 8000 series ensures that your system can be easily adapted to your growing research needs.



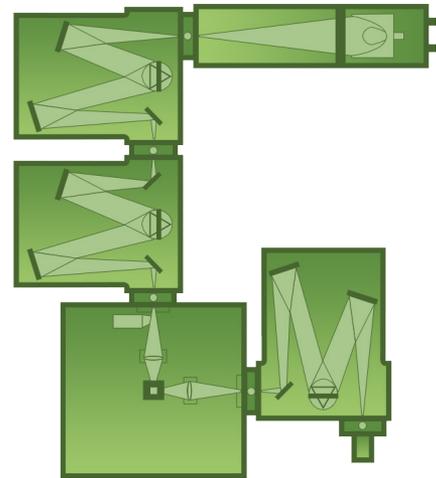
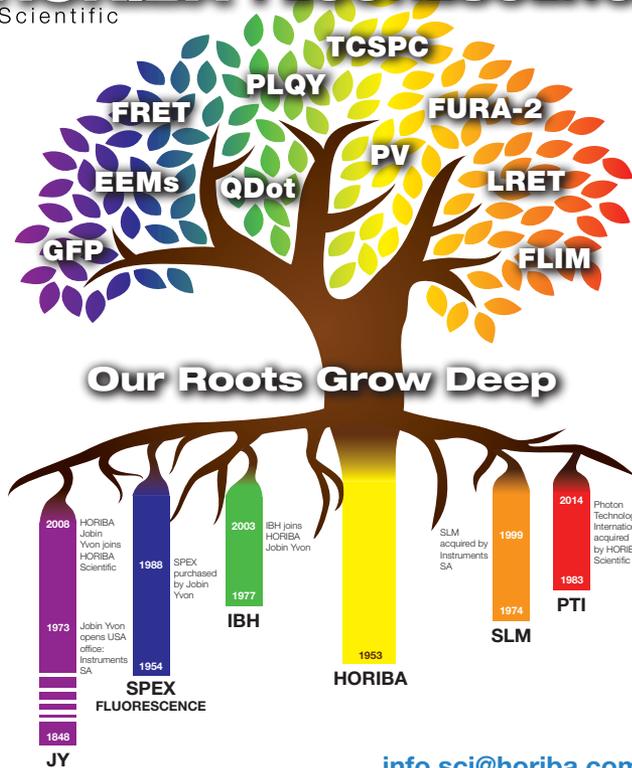
The new PTI QuantaMaster 8000 series is the first new QuantaMaster developed by HORIBA since the acquisition of PTI

Specifications

The following specifications are for the standard PTI QuantaMaster 8075-11 and 8450-11 systems. Options and upgrades may be available on request.

Signal to Noise Ratio	>31,000:1 RMS; >15,500:1 FSD
Data Acquisition Rate	1,000,000 points/sec. to 1 point/1000 sec
Inputs	4 photon counting (TTL); 4 analog (+/- 10 volts); 1 analog reference channel (+/- 10 volts); 2 TTL
Outputs	2 analog (+/- 10 volts); 2 TTL
Emission Range	185 nm to 900 nm (optional to 5,500 nm)
Light Source	High efficiency "ECO" friendly continuous 75 W Xenon arc lamp (Optional 450 W Xenon)
Monochromator	350 mm, triple grating, coma-aberration corrected, asymmetrical, excitation or emission optimized, Czerny-Turner design
Slits	Computer controlled, continuously adjustable
Excitation Grating	1200 line/mm 300 nm blaze. (Up to two optional gratings can be added)
Emission Grating	1200 line/mm 400 nm blaze. (Up to two optional gratings can be added)
Wavelength Accuracy	+/- 0.3 nm
Minimum Step Size	0.01 nm (grating dependent)
Standard Detection	Multimode: Photon Counting, 3 analog (fast, medium, slow response), direct and Single-Shot Transient Digitizer (SSTD) mode, TCSPC
System Control	Computer interface with FelixGX spectroscopy software
Lifetime Range	5 ps to seconds with appropriate time-resolved accessories
Dimensions (W x D x H)	36 in x 28 in x 12 in

HORIBA FLUORESCENCE Scientific



QM-8075-21 fluorometer with double additive excitation and single emission monochromator.

You'll find what you need and love what you get from the HORIBA fluorescence division



HORIBA
Scientific

info.sci@horiba.com

www.horiba.com/scientific

USA: +1 732 494 8660
UK: +44 (0)1604 542 500
China: +86 (0)21 6289 6060
Taiwan: +886 3 5600606

France: +33 (0)1 69 74 72 00
Italy: +39 06 51 59 22 1
India: +91 80 41273637
Brazil: +55 (0)11 2923 5400

Germany: +49 (0) 6251 8475 0
Japan: +81(75)313-8121
Singapore: +65 (0)6 745 8300
Other: +33 (0)1 69 74 72 00