HORIBAJOBIN YVON

It's About Time!

The World's Most Sensitive, Steady-State Spectrofluorometer

Becomes the world's most sensitive Lifetime System

Now you can have the speed and versatility you've come to expect in the FluoroMax[®], with the bonus of picoand nanosecond lifetime capability. Perfect for dynamic anisotropy, TRES, and virtually any application requiring time-resolution. When you want to run spectra, just dial it into the software and you're on your way—all with the ultimate, unrivaled sensitivity of photon-counting that strips away the noise, rather than adding it to your signal like an analog system has to.

The FluoroMax[®] is a compact, single-module spectrofluorometer with thousands working daily worldwide, providing the ultimate in fluorescence sensitivity. Now, TCSPC expertise from IBH, pioneers in the field, makes it the most sensitive method for recording fluorescence dynamics. This marriage of

proven designs means you can run your samples with confidence backed up by decades of experience and

thousands of users around the world, as well as sales and service offices the world over.

HORIBA

Explore the future

Specifications

Below you'll find a list of guaranteed specifications for the FluoroMax®-3 spectrofluorometer. Compare them with other instruments and you'll see why FluoroMax®-3 is uniquely suited to your application.

Optics: Source: **Spectrometers: Excitation: Emission: Bandpass:** Wavelength accuracy: Scan Speed: **Integration Time: Emission Detector: Reference Detector:** Wafer Raman Signal:

Signal-to-Noise Ratio:

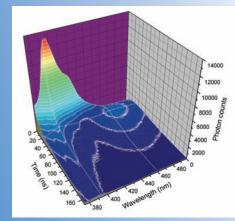
Dimensions (FluoroMax®):

(Sample Compartment):

Power Requirements:

System Control:

All-reflective for focusing at all wavelengths and precise imaging for microsamples Ozone-free xenon lamp eliminates venting Plane-grating Czerny-Turner design maintains focus at all wavelengths Range 200-950 nm, optimized in the UV Range 200-950 nm, optimized in the visible 0-30 nm, continuously adjustable from computer ± 0.5 nm 160 nm/second One millisecond to 160 seconds Photomultiplier range 200-850 nm Photodiode selected for stability 300.000 counts/second minimum at 350 nm excitation and 397 nm emission Bandpass = 5 nmIntegration time = 1 sec 3000:1 PC Computer $32 \times 10.5 \times 18.5$ in. (w \times h \times d) $80 \times 26.5 \times 46.5$ cm (w × h × d) Laser port and removable front plate for additional accessories $5.5 \times 7 \times 7$ in. (w × h × d) $13.8 \times 23 \times 27$ cm (w × h × d)



The evolution of fluorescence spectra over a course of time can be examined with HORIBA Jobin Yvon instruments using a time-resolved emission spectrum. Here the evolution of a pyrene-excimer complex is plotted over the course of 160 ns and various emission wavelengths.

Weight:

Dimensions

Lifetime

Lifetime range: 200 picoseconds-0.1 milliseconds (100 ps optional) Minimum resolution: <7 ps/channel

Excitation: NanoLED sources from 280 nm-785 nm, instantly interchangeable **Detection:** Time-Correlated Single-Photon Counting, to grab photons and reject noise, unlike analog methods that simply add the signal to the noise, degrading detection limits and accuracy.

5 amps @ 120V

75 lbs (30 kg)

2.5 amps @ 240V 50/60 Hz single phase

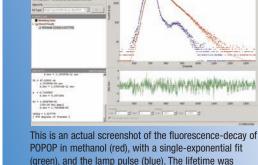
Software

DAS6 is the 6th-generation decay analysis software featuring reconvolution, shift integration, and advanced user interface with IBH's proprietary Hybrid Grid Search Algorithm (HGSA) for stable chi-squared minimization.

Accessories

Sample Heater/Coolers Dewars Autopolarizers and more





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found to be 1.32 ns.

(All HORIBA Jobin Yvon companies were formerly known as Jobin Yvon)



