

## *Product Release Note*

# **Jobin Yvon Inc., New Fluorescence Lifetime Micro-Mapping System**

A new fluorescence system, the SPEX<sup>®</sup> Fluorescence Lifetime Micro-Mapping spectrofluorometer, from Jobin Yvon Inc., offers the ability to map the fluorescence characteristics of samples on the microscopic scale.

The automated, computer-controlled system incorporates a CW xenon lamp plus a built-in laser port, all-reflective monochromators for precise imaging, a Pockels-cell modulator for lifetime measurements, an Olympus epifluorescence microscope with variable excitation spot-size from 1–20  $\mu\text{m}$ , and all necessary electronics and power supplies. A digital camera is standard on the Fluorescence Lifetime Micro-Mapping System, for recording bright-field images of the sample. Switching between steady-state and lifetime experiments is controlled by the simple turn of a knob. The system can be fitted with photomultiplier tubes sensitive to UV, visible, or near-IR photons,

and with a CCD array for fast acquisition of complete spectra.

Information of fluorescence intensity and lifetimes (down to the picosecond timescale) on desired areas of the sample can be accumulated automatically by programming the movable stage ( $<0.1 \mu\text{m}$  step-size, reproducible to  $\pm 1 \mu\text{m}$ ) on the microscope. Spatial resolution is to within 1  $\mu\text{m}$  in the  $x$ - $y$  plane, and 2  $\mu\text{m}$  along the  $z$ -axis. Fitting of single or multiple lifetimes, as well as lifetime distributions are also possible, using Jobin Yvon's time-tested software packages. All the sensitivity and high performance normally associated with SPEX<sup>®</sup> brand products is retained.

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