

PRODUCT OVERVIEW

Photoluminescence Spectroscopy


STEADY STATE

FLUORESCENCE LIFETIMES

PHOSPHORESCENCE LIFETIMES

ABOUT US

Edinburgh Instruments has been providing high performance instrumentation in the Molecular Spectroscopy market for over 50 years. As world leaders in fluorescence spectroscopy, we are recognised internationally for our outstanding quality in instrumentation and services and have systems installed in research laboratories across the globe.


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FLS1000 PHOTOLUMINESCENCE SPECTROMETER

A STATE-OF-THE-ART, MODULAR PHOTOLUMINESCENCE SPECTROMETER FOR THE MOST DEMANDING APPLICATIONS IN PHOTOPHYSICS, PHOTOCHEMISTRY, MATERIAL SCIENCES AND LIFE SCIENCES.

The instrument sets the standards in both steady state and time-resolved spectroscopy. The system is a modular fluorescence and phosphorescence spectrometer for measuring spectra from the ultraviolet to the mid-infrared spectral range (up to 5,500 nm), and lifetimes spanning from picoseconds to seconds.



Key Features



Modular construction

Maximum flexibility and upgradability.



>35,000:1

Industry leading sensitivity – Water Raman signal-to-noise ratio.



Superior monochromators

Single or double 325 mm monochromators available for excellent stray light rejection.



Unrivalled spectral coverage

From the deep UV to the MIR 185 nm – 5,500 nm.



Bespoke development

Our instruments can be fully customised to your requirements.

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FS5 SPECTROFLUOROMETER

THE FS5 IS A FULLY INTEGRATED, PURPOSE-BUILT SPECTROFLUOROMETER.

The FS5 is designed to meet the highest measurement specifications in the research and analytical markets. To achieve optimal sensitivity, resolution, and acquisition speed, we select only the optimal performance photomultipliers in temperature stabilised housings, and utilise an optical design that includes plane, spherical, toroidal, ellipsoidal mirrors and optimised mirror coatings; the FS5 is truly unrivalled in its spectral performance and sensitivity



Key Features



>10,000:1

Industry leading sensitivity – Water Raman signal-to-noise ratio. Detection of very weak fluorescence signals.



Multiple detector ports

Fully integrated detectors; measure up to 1650 nm and fluorescence lifetimes down to 25 ps.



Transmission detector

Included as standard for transmission/absorption measurements.



Plug & Play

Sample modules automatically recognised and initialised.

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LIFESPEC II & MINI-TAU LIFETIME SPECTROMETERS

The **Lifespec II** is a high performance double monochromator-based fluorescence lifetime spectrometer with zero temporal dispersion. The fastest TCSPC instrument on the market.

The **Mini-tau** is an ultra-compact, low cost spectrometer designed for lifetimes ranging from 25 ps to 50 μ s with integrated electronics and a choice of pulsed sources available.



PICOSECOND PULSED DIODE SOURCES EPL & EPLED / VPL & VPLED / HPL

Our compact picosecond pulsed diode lasers and LEDs are designed for use with our lifetime systems. Laser wavelengths are available from 375 nm - 980 nm, with typical pulsewidths of <100 ps and up to 80 MHz repetition rates are available. Wavelengths for the LEDs are available from 250 nm - 610 nm, with pulsewidths of ~800 ps.



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