

PRODUCT OVERVIEW

Molecular Spectroscopy



EDINBURGH
INSTRUMENTS

 Photoluminescence

 Raman

 UV-Vis

 Transient Absorption

Edinburgh Instruments is a world-leader in both single photon counting and time-correlated single photon counting (TCSPC) based fluorescence spectrometers.

We are recognised internationally as a company that offers maximum flexibility and exceptional quality in both instrumentation and services. Highlighted in this product overview are the most popular products from our Photonics division.

PHOTOLUMINESCENCE SPECTROMETERS



FLS1000 PHOTOLUMINESCENCE SPECTROMETER

The FLS1000 is 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.

- > Modular construction for maximum flexibility and upgradability
- > Industry leading sensitivity
- > Unrivalled spectral coverage from deep UV to the Mid-IR
- > Superior monochromator performance, components and focal length for excellent stray light rejection



FS5 SPECTROFLUOROMETER

The FS5 is a fully integrated, purpose-built spectrofluorometer. Suited for analytical and research laboratories, the FS5 can handle the speed of routine analysis and the sensitivity of demanding research requirements.

- > Multiple detector ports allowing measurements up to 1650 nm, and lifetimes down to 25 ps in one instrument
- > High sensitivity allows for detection of very weak fluorescence signals
- > Absorption/Transmission detector included as standard
- > 'Plug & Play' sample modules with auto-recognition for complete user-friendliness



1000+

high-specification systems in industry and leading universities



45+

years of manufacturing research grade products for the diverse needs of its customers

FLUORESCENCE LIFETIME DEDICATED SPECTROMETERS & PULSED SOURCES



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.

PULSED DIODE SOURCES VPL / EPL / 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.

EDINBURGH INSTRUMENTS

2 Bain Square,
Kirkton Campus,
Livingston, EH54 7DQ
United Kingdom

Tel: +44 (0)1506 425 300
Fax: +44 (0)1506 425 320

sales@edinst.com

RAMAN RAMAN MICROSCOPES



PRECISION RAMAN



RM5 COMPACT & FULLY AUTOMATED

The RM5 is a compact and fully automated Raman microscope for analytical and research purposes. The truly confocal design of the RM5 is unique to the market and offers uncompromised spectral resolution, spatial resolution and sensitivity.

- > Truly confocal - variable slit and multi position, adjustable pinhole
- > Up to 3 integrated narrowband lasers
- > 5-position grating turret
- > Up to 2 integrated detectors
- > Internal standards and auto-calibration

RAMACLE® POWERFUL RAMAN SOFTWARE PACKAGE

Ramacle is an exceptional software package written from the ground up. Complete instrument control and data handling comes as standard.

Ramacle was written with a straightforward design concept: it focuses on all modern Raman spectroscopy applications, while at the same time, provides a user-friendly interface with 'ready to publish' outputs.

- > Mapping features
- > Fully motorised stage control
- > White light image visualisation

UV-VIS



DS5 DUAL BEAM UV-VIS SPECTROPHOTOMETER

The DS5 UV-Vis Spectrophotometer is a high performance dual beam instrument suitable for many analytical applications where accuracy and precision measurements are key to your results.

- > Variable bandpass options - 0.5 nm, 1.0 nm, 1.5 nm, 2.0 nm, 4.0 nm
- > Fast scanning - up to 6,000 nm/min
- > Automatic accessory recognition
- > Modern touchscreen interface with intuitive menus and functions
- > USB, SD card and internal data storage
- > Compact footprint

TRANSIENT ABSORPTION



LP980 TRANSIENT ABSORPTION SPECTROMETER

The LP980 measures transient absorption, laser-induced fluorescence and phosphorescence, all in one instrument. At the heart of the LP980 is a fully automated, turnkey spectrometer for acquiring transient absorption kinetics and spectra based on the laser flash photolysis (pump-probe) technique.

- > All-in-one spectrometer for transient absorption and laser-induced fluorescence
- > Transients measured up to 2.55 µm
- > Integrated ICCD detector to measure spectra in one laser flash
- > Advanced software package for complete control of components and measurements



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We reserve the right to change our specifications without notice.
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