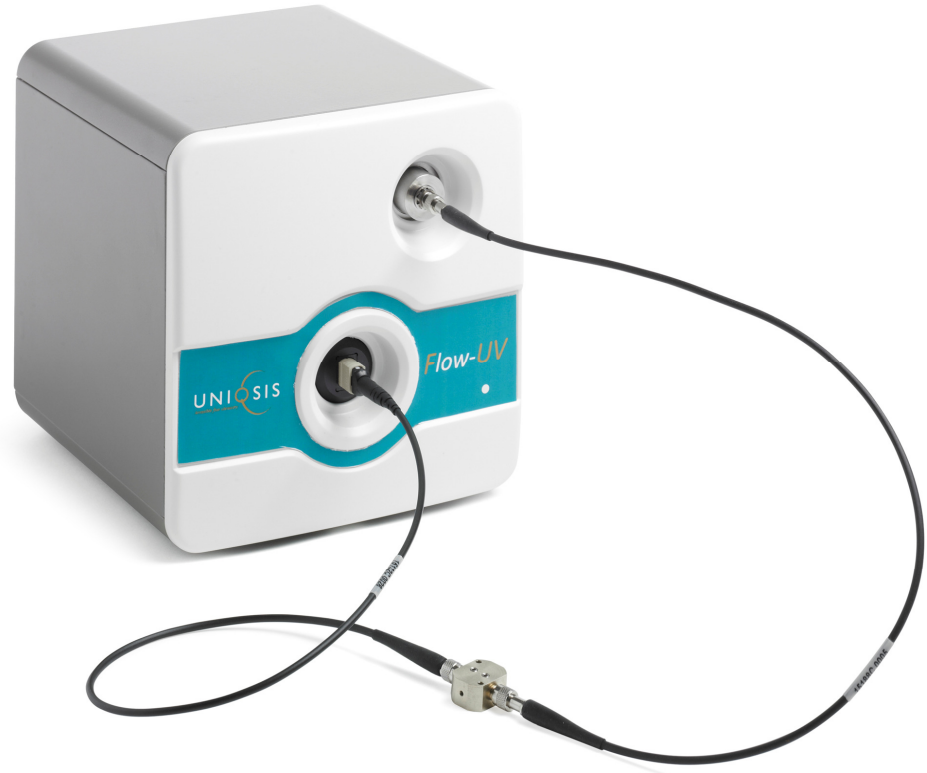

Flow-UV™

Inline UV-Vis Spectrophotometer for flow chemistry

SENTINEL
PROCESS SYSTEMS, INC

3265 Sunset Lane, Hatboro, PA 19040
www.sentinelprocess.com
P: 800.345.FLOW F: 888.329.9669

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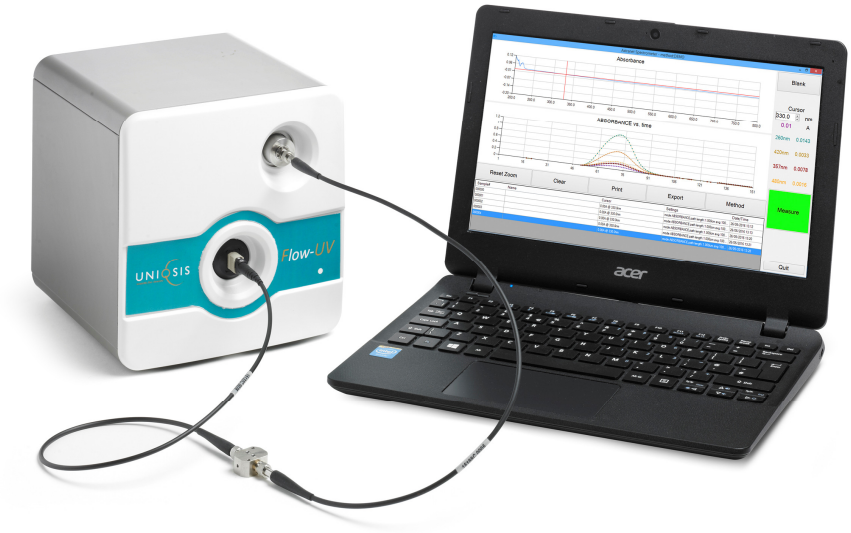
Flow-UV™

Low cost, inline UV-Vis spectrophotometer for flow chemistry



- **Pulse Xenon source; 190-1050nm (near-IR option)**
- **UV enhanced 3648 pixel CCD array**
- **Flexible - high pressure *inline* flow cell with fibre optic waveguides may be positioned virtually anywhere in the flow path**
- **Convenient - flow cell incorporates PFA reactor tubing**
- **Monitor absorbance *versus* time over 5 user-selected wavelengths**

Flow-UV™ is an affordable and easy-to-use inline UV-Vis spectrometer designed for flow chemistry applications.

Compact (18 x 18 x 17cm) and reliable (no moving parts), the Flow-UV fits conveniently into crowded fume cupboards and does not require calibration or routine servicing. Moreover, in contrast to conventional Deuterium lamps, the Xenon flash lamp source has a lifetime of up to 10 years in normal use.

Fibre optic waveguides connect the flow cell to the source and detector thereby permitting the flow cell to be positioned virtually anywhere in the flow path. The flow cell itself utilises a short length of PFA reactor tubing and is therefore not restricted to being located after the outlet back pressure regulator in the low pressure region of the flow path where outgassing can be problematic.

To assure linearity of response, the user may select up to 5 wavelengths over which to monitor a reaction such that detector saturation is avoided. Absorbance is plotted against time using the system control software. The control software may be configured to automatically record a background spectrum at the beginning of each experiment. Having previously set up and saved a method, a single button press is all that is required to start acquisition.

The absorbance plot allows dispersion to be monitored in real time and enables product collection to be controlled according to the onset and decline of steady state conditions.

Perfect for use with complete flow chemistry systems such as FlowLab™!

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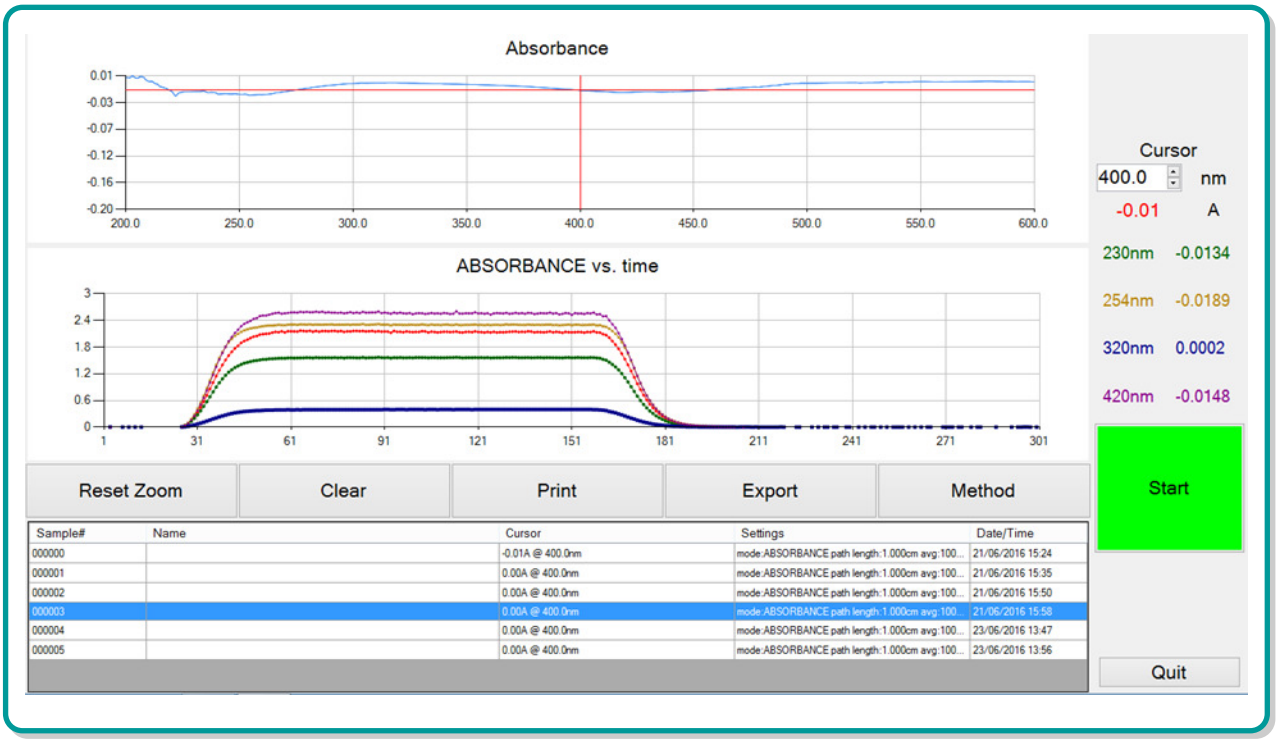
Monitoring dispersion and steady state in real time ...



UQ1100 Flow-UV inline UV-Vis spectrometer — Specification	
Dimensions (on bench)	180mm (w) x 180mm (d) x 170mm
Power supply (total)	24V DC from 110-230V
Weight	2.5kg
Wavelength range	190-1050nm
Bandwidth	<2nm
Photometric range	-0.2 to 2.5A
Photometric linearity	Better than 1%
Light source	Pulsed Xe lamp (Tungsten option for near-IR)
Detector	UV enhanced 3648 pixel CCD array
Lamp life	Up to 10 years

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