

# Fmoc-UV Detector

A RUGGED UV DETECTOR DESIGNED SPECIFICALLY FOR FLOW CHEMISTRY APPLICATIONS

The Fmoc-UV has been designed to quantify the amount of the fluorenylmethoxycarbonyl [Fmoc] protecting group in the outflow during solid-phase peptide synthesis [SPPS].



## Key features of the Fmoc-UV detector

- Dual wavelength, 365 nm and 460 nm
- Simultaneous monitoring of both wavelengths
- High acquisition frequency of 4 Hz
- Straight-through flow cell tolerant of particulates
- Easily replaced polymer flow cell
- RS-232 serial protocols
- Interfaces directly with R-Series software

## Rugged, reliable and compact

The Fmoc-UV detector has a small footprint of 16 cm (h) x 7 cm (w) x 20 cm (d).

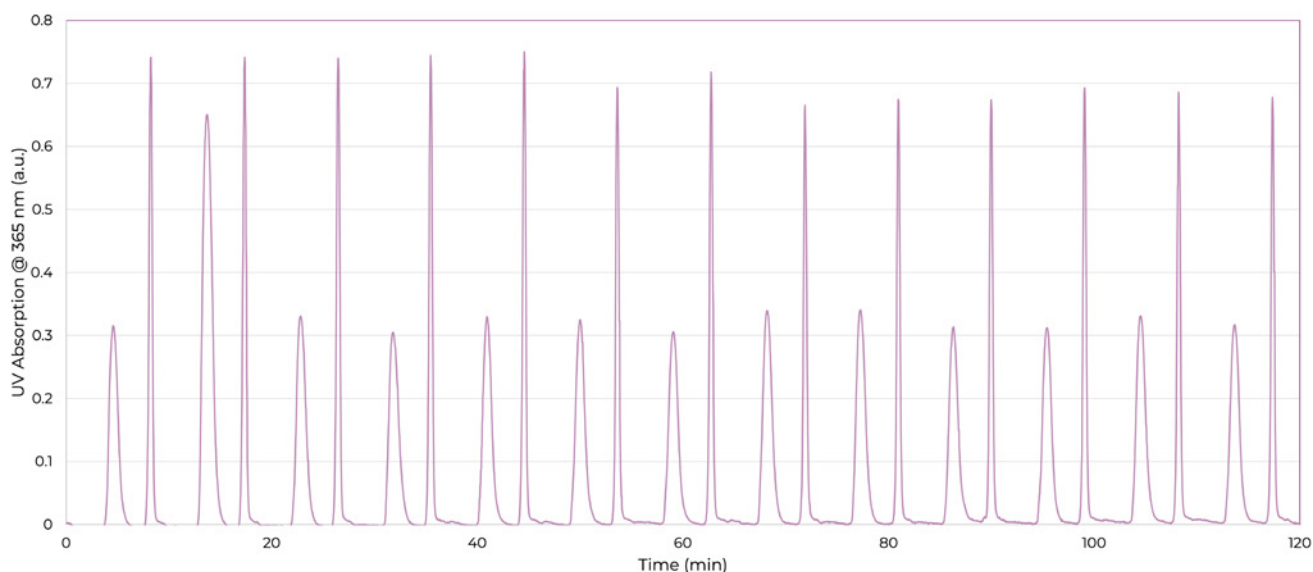
Designed to have no moving parts, it also features a low-cost flow cell with a straight-through flow path. The complete low-cost flow cell can be easily replaced in the event of blockages.



Originally developed to quantify the concentration of solutions containing Fmoc protecting group, further applications in chemical synthesis include:

- Quantify the amount of protecting groups in the outflow during SPPS
- Sampling batch reactors for compounds that absorb at 365 or 460 nm
- Triggering collection in flow chemistry during library synthesis
- Undertaking dispersion testing in flow chemistry applications

UV absorption at 365 nm of a peptide synthesis:



## Integration

The Fmoc-UV also includes serial communication via RS-232 protocols and the ability to interface directly with Vapourtec's R-Series software.

