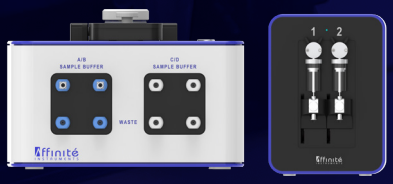
Enabling Static and Flow-based SPR analysis with

P4PRO & AFFIPUMP



Introducing the most versatile 4-channel surface plasmon resonance (SPR) system :

With its advanced technology, this device offers unparalleled control and flexibility, allowing users to easily switch between static and flow analysis modes with the addition of the Affipump, a high accuracy dual-syringe pump that provides a wide range of flow rate and a stable baseline. Whether you need individual or multi-channel analysis, the P4PRO and Affipump delivers real-time, inline controls and unbeatable performance. Experience the future of static and flow analysis with our revolutionary product.

Features of P4PRO and Affipump

- Multi-four channel capability
- Direct, real-time, inline controls
- Minimal sample processing data artifacts
- Semi-automated sample delivery option
- Minimal hands-on time
- Runs both static and flow analyses

Contact Us

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Supported Assays


Affinity characterization


Specificity screening/ranking


Yes/no binding


Live binding data


Concentration analysis


Kinetics characterization

Product Specifications

Specification	P4PRO and Affipump
Weight	4.4 kg and 2.5 kg
Dimensions	25 cm x 25 cm x 13.5 cm and 20 cm x 9.5 cm x 27 cm
Mode	Hybrid (Static and Flow)
Number of channels (Simultaneous reading)	Static: 4 Flow: 2 (Total of 4 channels)
Flow rate range	0.3 - 10,000 uL/min
Injection volume required	Static: 300 uL Flow: 5 - 100 uL
Detection rate	1 or 5 Hz
Sample introduction mode	Semi-automated
Run time per cycle	2 - 15 minutes
Operating temperature range	Ambient
Power requirement	24V and 12V

Performance

Detection limit	fM (assay dependent)
Association rate (kon) range	10^{3}– $10^{7}M^{-1}s^{-1}$
Dissociation rate (koff) range	10^{-5}– $10^{-1}s^{-1}$
Affinity constant (KD) range	≥ pM

Applications

Biosensing
Real-time monitoring and characterization of biomolecular interactions

Drug Discovery
Leveraging molecular interactions to develop therapeutic compounds

Biomanufacturing
Optimizing bioproduction processes for better outcomes

Environmental Testing
Deciphering environmental health through chemical and molecular analysis

Bioanalytical Testing and More
Exploring transdisciplinary fields of bioanalysis

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