

2500 System Specifications

Base Station	Light source	Two low coherent light sources (670 nm)
	Detection speed	4 ms
	Incident angle ranges	40 - 47 Deg (gas) 67 - 81 Deg (liquid)
	Refractive index ranges	1.00 - 1.40
	Baseline noise	< 0.06 RU RMS (0.01 mDeg RMS)
	Baseline drift	1RU/hr (0.17 mDeg/hr) (when ambient drifts < 1°C/hr)
	Measurement ranges	Association rate constant ka: up to 10 ⁸ M ⁻¹ s ⁻¹ Dissociation rate constant kd: 10 ⁻⁶ to 1 s ⁻¹ KD: 1pM to 1mM Active Concentration: 1pM to 1mM
	Molecular weight cutoff	100 Da
	Temperature control	Control accuracy at 0.01 degrees Range at +/- 5 degrees at room temperature
	PC interface	USB 3.0
	Data IO port	IO ports for sending and receiving raw signals with other equipment.
	Outer dimension and weight	355(w) x 250 (h) x 515 (d) mm and 11.5 kg
	Power supply	110-230 V 50/60 Hz
Fluid Handling	Sample channels	3 channels
	Flow cell material	PEEK (biologically compatible)
	Flow rate	1.0 to 150 µL/min (application dependent)
	Buffer handling	Dual syringes driven by programmable infusion pump Providing >8 hours of continuing operation.
	Sample injection volume	10 to 500 µL (application dependent)
	Sample injection methods	Manual
	Channel volume	< 32 nL
	Injection rise time	< 0.2 s
	Analysis module (standard)	3 channel Flow Injection Analysis Module
	Optional modules	EC-SPR module for SPR measurement with electrochemistry EC-DualFlow™ for two channel flowthrough EC-SPR measurement Gas SPR module for chemical vapor SPR measurement
Control System	Computer Software	Windows OS; SPR Control software for real-time instrument control with programmable interaction assays for various application protocols; Data Analysis software for affinity, kinetics analysis.
	Compliance	CE compliance; IQOQ certification

Product specification and descriptions in this document are subject to change without notice. January 2024