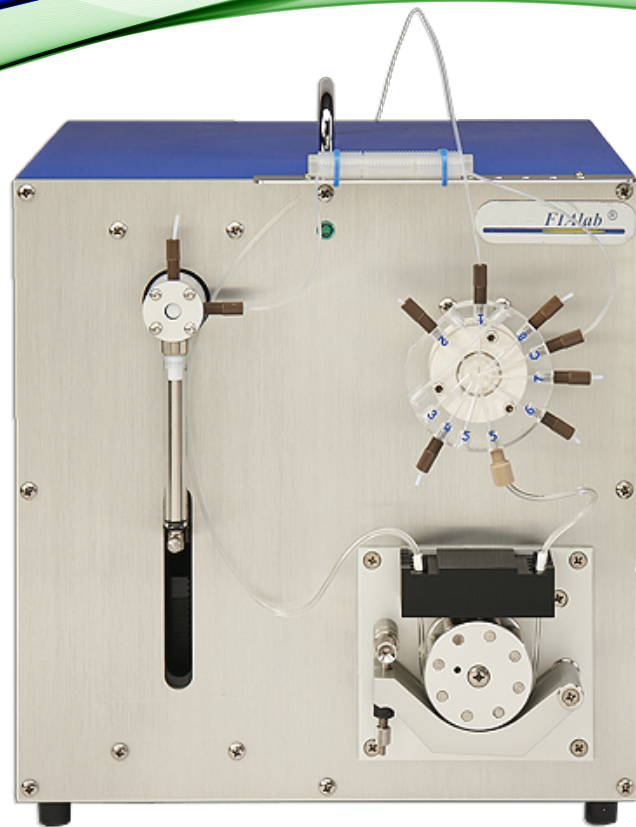


OmniSIA

The Multi-Analysis Instrument



29 cm

31 cm

The OmniSIA is our most flexible instrument, performing analyses in both SIA (sequential injection analysis) and FIA (flow injection analysis) formats. With a multi-position valve, high resolution micro-syringe pump, and 4-channel peristaltic pump, this unit is ideal for developing new FIA or SIA methods and testing new sensor technologies. It is also suitable for:

- Gas diffusion
- Low pressure column separations
- Dialysis
- Exploration of chemical reactions

The OmniSIA integrates smoothly with other peripheral analytical instruments. These include autosamplers, additional pumps, selector/injector valves, and FIALab's PMT (photo-multiplier tube). Detector methods include UV-vis spectrophotometry, fluorescence, and chemiluminescence.

The OmniSIA is controlled through our intuitive and dynamic software, SIAsoft. It allows users to execute preloaded methods or their own with custom Python scripts.



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Ask us for a free instrument demonstration.
We'll visit you!

OmniSIA Specifications

Analyzer	
Type	Sequential Injection Analyzer
Enclosure Material	Aluminum (powder-coated/anodized)
Syringe Pumps	
Type	XLP6000 high-precision syringe pump
Wetted Materials	Glass, Teflon®, PCTFE
Syringe Sizes	50, 100, 250, 500 μ L and 1.0, 2.5, 5.0, 10, 25, 50 mL
Resolution	48,000 steps per full stroke
Speed	1.2s – 160 min per full stroke
Peristaltic Pump	
Type	4-channel peristaltic, common pressure plate
Materials	Aluminum, Stainless Steel
Tubing Type	2-stop elastic tubing
Flow Rate	0.30-2.80 mL/min per channel with 0.76 mm ID tubing 0.50-5.0 mL/min per channel with 1.02 mm ID tubing
Valve	
Type	8-port multi-position selector valve. 6-port and 10-port also available. Optional Lab-on-Valve® manifold - Ultem® or Plexiglas.
Wetted Materials	PPS, Valcon E2, Ultem®, Plexiglas, Ultem®
Port Type	Flat-bottom ¼ - 28
Relay Output	
Voltage	24 V
Current	Max 4 mA
Dimensions	
Height	31cm / 12 in
Width	29 cm / 11.4 in
Depth	26 cm / 10.2 in
Weight	11 kg / 24 lb
Communication	
Type	USB
Output	RS-485
Control Options	SIAsoft – FIALab's proprietary software
Power Requirements	
Voltage	24 V DC
Current	Max 3.75 A