

FIAlyzer-2000

The new FIAlyzer-2000 offers the same dual channel FIA capabilities as two connected FIAlyser-1000s, except it's built into a single enclosure with a dual sample loop injection valve and an eight channel peristaltic pump.

The advantages compared to two single channel FIAlyzer-1000s include cost savings, smaller bench space, increased speed (sample has less distance to travel to fill both sample loops), and simplicity. Consider connecting two FIAlyzer-2000s to create an economical four channel FIA system.

The same assays compatible with the FIAlyzer-1000 will work well with the FIAlyzer-2000.

Example Analyte Combinations	Throughput	
Nitrate and Nitrite	240/hr	
Nitrate and Ammonia	120/hr	
Nitrate and Chloride	240/hr	
Nitrate and Sulfate	120/hr	
Ortho Phosphate and Nitrate	240/hr	
Ortho Phosphate and Ammonia	120/hr	
Bray Phosphate and Potassium	240/hr	
(with Flame Photometer for Potassium)		
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Typical FIAlyzer-2000 System

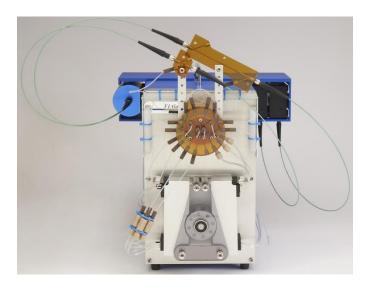
FIAlyzer-2000 Integrated Dual FIA LOV Manifold Two USB4000 UV/VIS Spectrometers HL2000-LL Visible Tungsten Lamp

Optional Components

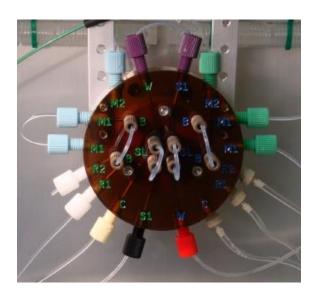
Autosampler (120 to 520 sample capacities) Long Path 50 cm Flow Cell for Low Level Assays Heater (for Ammonia and Phosphate Assays) BD50 Batch or IL-UV In-Line Digestor Flame Photometer for Potassium Assays



Leaders in Flow Injection Technology



FIAlyzer-2000 Dual Channel System



Lab-On-Valve for FIAlayzer-2000

Example Configurations

Dual Assays: Measure two analytes simultaneously.

Extended Range: Inject two different size sample loops into two different size flow cells to extend the dynamic range.

Nitrate plus Nitrite: Simultaneously measure nitrate plus nitrite (with column) and nitrite (without column), and automatically derive the separate nitrate and nitrite components.



Flow Injection Add-On Components for the *Leaders in Flow Injection Technology* FIAlyzer-2000 Systems

measure two sample vials at once.

Flow cell

SMA-Z Flow cell - 2.5 to 100 mm optical length - 10mm for most standard assays

LP Long Path Flow cell - 50 cm optical path - ideal for low nutrient ocean water assays

SMFC Sandwich Membrane Flow cell - for dialysis and gas diffusion based assays

Light Sources and optics

HL2000-LL Light Source - for visible colorimetric assays

DH-2000 Deuterium Tungsten Halogen Lamp - for UV and visible colorimetric assays: 215-2000 nm

Various LED Lamps
- available in Visible, UV, and IR

Autosamplers

Cetac or Aim Autosamplers/Fraction Collectors
- a wide range of models and sizes are available

Detectors

Spectrometers

- Ocean Optics for colorimetric and fluorometric assays

PMT-FL Fluorometer

- for low level fluorometric assays

Sample Prep

Batch or IL-UV In-line Digestion Systems - for TKN, TN, TP, total cyanide digestions



















Method Performance

Agricultural and Environmental Assays

Agricultural and Environmental Assays are routinely performed with the FIAlyzer-1000, and FIAlyzer-2000 systems, including nitrate, nitrite, ammonia, phosphate, and chloride (and many others). The following table lists a few methods, typical concentration ranges, and sample throughputs. Additional methods for lower and higher concentration ranges, as well as for other analytes are available, please inquire. Some of the following methods can be performed with brackish/seawater samples. Multiple channel systems are available to process up to four of these methods simultaneously.

Nitrate (Mid to High)	Analyte	Throughput	Typical Ranges	Flow cell	Notes
Nitrate (Low)	Nitrate (Mid to High)	180 samples/hour	0.02 to 200 mg (N)/L	1 cm flow cell	Cadmium
Nitrite (Low)	Nitrite (Mid to High)	220 samples/hour	0.005 to 100 mg (N)/L	1 cm flow cell	
Nitrate (Ultra Low)	Nitrate (Low)	60 samples/hour	0.002 to 10 mg (N)/L	10 cm flow cell	Cadmium
Nitrite (Ultra Low)	Nitrite (Low)	80 samples/hour	0.0005 to 5 mg (N)/L	10 cm flow cell	
Ammonia (Mid to High) 120 samples/hour 0.5 to 200 mg (N)/L 10 cm flow cell Salicylate Method Ammonia (Low) 80 samples/hour 0.01 to 10 mg (N)/L 10 cm flow cell Salicylate Method Ammonia (Ultra Low) 40 samples/hour 0.002 to 2 mg (N)/L 50 cm flow cell Salicylate Method Ammonia (Mid to High) 40 samples/hour 0.05 to 30 mg (N)/L 1 cm flow cell Dialysis Cell Dialysis Cell OPA Method TKN (Mid) 120 samples/hour 1.0 to 300 mg (N)/L 1 cm flow cell Dialysis Cell Dialysis Cell OPA Method TKN (Mid) 110 samples/hour 1.0 to 300 mg (N)/L 1 cm flow cell Dialysis Cell Dialysis Cell Dialysis Cell OPA Method	Nitrate (Ultra Low)	45 samples/hour	0.0004 to 1 mg (N)/L	50 cm flow cell	Cadmium
Ammonia (Low) 80 samples/hour 0.01 to 10 mg (N)/L 10 cm flow cell Salicylate Method Ammonia (Ultra Low) 40 samples/hour 0.002 to 2 mg (N)/L 50 cm flow cell Salicylate Method Ammonia (Mid to High) 40 samples/hour 0.05 to 30 mg (N)/L 1 cm flow cell Dialysis Cell Ammonia (Ultra Low) 45 samples/hour 0.001 to 0.5 mg (N)/L 10 cm flow cell Dialysis Cell Ammonia (Ultra Low) 45 samples/hour 0.001 to 0.5 mg (N)/L Fluorometric OPA Method TKN (Mid) 120 samples/hour 0.01 to 0.5 mg (N)/L 10 cm flow cell Batch Digestion Total Nitrogen 30 samples/hour 0.1 to 5 mg (N)/L 1 cm flow cell In-line UV Digestion Phosphate (Mid to High) 120 samples/hour 0.1 to 2.5 mg (P)/L 1 cm flow cell Ortho/Bray/Olsen Phosphate (Ultra Low) 45 samples/hour 0.01 to 2.5 mg (P)/L 1 cm flow cell Ortho/Bray/Olsen Phosphate (Mid to High) 360 samples/hour 0.1 to 25 mg (P)/L 1 cm flow cell Fast FIA Manifold Fast Phosphorus (mid) 30 samples/hour 0.1 to 25 mg (P)/L 1	Nitrite (Ultra Low)	55 samples/hour	0.0001 to 0.5 mg (N)/L	50 cm flow cell	
Ammonia (Ultra Low) 40 samples/hour 0.002 to 2 mg (N)/L 50 cm flow cell Dialysis Cell Ammonia (Mid to High) 40 samples/hour 0.05 to 30 mg (N)/L 1 cm flow cell Dialysis Cell Ammonia (Low) 30 samples/hour 0.005 to 3 mg (N)/L 10 cm flow cell Dialysis Cell Ammonia (Ultra Low) 45 samples/hour 0.001 to 0.5 mg (N)/L Fluorometric OPA Method TKN (Mid) 120 samples/hour 0.1 to 5 mg (N)/L 10 cm flow cell Batch Digestion Total Nitrogen 30 samples/hour 0.1 to 5 mg (N)/L 10 cm flow cell In-line UV Digestion Total Nitrogen 30 samples/hour 0.01 to 0.1 mg (N)/L 10 cm flow cell In-line UV Digestion Phosphate (Mid to High) 120 samples/hour 0.1 to 25 mg (P)/L 1 cm flow cell Ortho/Bray/Olsen Phosphate (Low) 60 samples/hour 0.01 to 2.5 mg (P)/L 10 cm flow cell Ortho/Bray/Olsen Phosphate (Wid to High) 360 samples/hour 0.002 to 0.5 mg (P)/L 50 cm flow cell Ortho/Bray/Olsen Phosphate (Mid to High) 360 samples/hour 0.1 to 25 mg (P)/L 1 cm flow cell Ortho Fast Phosphate (Low) 240 samples/hour 0.1 to 25 mg (P)/L 1 cm flow cell Fast FIA Manifold Total Phosphorus (mid) 80 samples/hour 0.1 to 25 mg (P)/L 10 cm flow cell Fast FIA Manifold Total Phosphorus (iow) 80 samples/hour 0.1 to 25 mg (P)/L 1 cm flow cell Chloride (Mid) 120 samples/hour 0.1 to 25 mg (P)/L 1 cm flow cell Chloride (Low) 60 samples/hour 0.5 to 300 mg /L 1 cm flow cell Silica (Mid to High) 60 samples/hour 0.5 to 300 mg /L 10 cm flow cell Silica (Low) 60 samples/hour 0.05 to 30 mg /L 10 cm flow cell Silica (Ultra Low) 40 samples/hour 100 to 500 mg SO4/L 1 cm flow cell Sulfate (Mid-high) 120 samples/hour 100 to 500 mg SO4/L 1 cm flow cell Iron (Mid) 140 samples/hour 0.025 to 100 mg/L 1 cm flow cell	Ammonia (Mid to High)	120 samples/hour	0.5 to 200 mg (N)/L	1 cm flow cell	Salicylate Method
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Ammonia (Ultra Low) 45 samples/hour 0.001 to 0.5 mg (N)/L Fluorometric OPA Method TKN (Mid) 120 samples/hour 1.0 to 300 mg (N)/L 10 cm flow cell Batch Digestion Total Nitrogen 30 samples/hour 0.1 to 5 mg (N)/L 1 cm flow cell In-line UV Digestion Phosphate (Mid to High) 120 samples/hour 0.1 to 25 mg (P)/L 1 cm flow cell Ortho/Bray/Olsen Phosphate (Low) 60 samples/hour 0.01 to 2.5 mg (P)/L 10 cm flow cell Ortho/Bray/Olsen Phosphate (Ultra Low) 45 samples/hour 0.002 to 0.5 mg (P)/L 50 cm flow cell Ortho/Bray/Olsen Phosphate (Mid to High) 360 samples/hour 0.1 to 25 mg (P)/L 50 cm flow cell Ortho Fast Phosphate (Low) 240 samples/hour 0.01 to 2.5 mg (P)/L 1 cm flow cell Fast FIA Manifold Total Phosphorus (Indi) 80 samples/hour 0.1 to 25 mg (P)/L 1 cm flow cell Fast FIA Manifold Total Phosphorus (Iow) 80 samples/hour 0.1 to 5 mg CI-/L 1 cm flow cell 1 cm flow cell Chloride (Mid) 120 samples/hour 0.5 to 300 mg /L 1 cm flow cel	Ammonia (Mid to High)	40 samples/hour	0.05 to 30 mg (N)/L	1 cm flow cell	Dialysis Cell
TKN (Mid) 120 samples/hour 1.0 to 300 mg (N)/L 10 cm flow cell Batch Digestion Total Nitrogen 30 samples/hour 0.1 to 5 mg (N)/L 1 cm flow cell In-line UV Digestion Total Nitrogen 30 samples/hour 0.01 to 0.1 mg (N)/L 10 cm flow cell In-line UV Digestion Phosphate (Mid to High) 120 samples/hour 0.1 to 25 mg (P)/L 1 cm flow cell Ortho/Bray/Olsen Phosphate (Low) 60 samples/hour 0.01 to 2.5 mg (P)/L 10 cm flow cell Ortho/Bray/Olsen Phosphate (Ultra Low) 45 samples/hour 0.002 to 0.5 mg (P)/L 50 cm flow cell Ortho/Bray/Olsen Phosphate (Mid to High) 360 samples/hour 0.1 to 25 mg (P)/L 1 cm flow cell Ortho/Bray/Olsen Fast Phosphate (Low) 240 samples/hour 0.01 to 2.5 mg (P)/L 1 cm flow cell Fast FIA Manifold Total Phosphorus (Inid) 80 samples/hour 0.1 to 25 mg (P)/L 1 cm flow cell Fast FIA Manifold Total Phosphorus (Iow) 80 samples/hour 0.1 to 25 mg (P)/L 1 cm flow cell Total Phosphorus (Iow) 1 to 25 mg (P)/L 1 cm flow cell Chloride (Mid)	Ammonia (Low)	30 samples/hour	0.005 to 3 mg (N)/L	10 cm flow cell	Dialysis Cell
Total Nitrogen 30 samples/hour 0.1 to 5 mg (N)/L 1 cm flow cell In-line UV Digestion Total Nitrogen 30 samples/hour 0.01 to 0.1 mg (N)/L 10 cm flow cell In-line UV Digestion Phosphate (Mid to High) 120 samples/hour 0.1 to 25 mg (P)/L 1 cm flow cell Ortho/Bray/Olsen Phosphate (Low) 60 samples/hour 0.01 to 2.5 mg (P)/L 10 cm flow cell Ortho/Bray/Olsen Phosphate (Ultra Low) 45 samples/hour 0.002 to 0.5 mg (P)/L 50 cm flow cell Ortho/Bray/Olsen Phosphate (Mid to High) 360 samples/hour 0.1 to 25 mg (P)/L 1 cm flow cell Fast FIA Manifold Fast Phosphate (Low) 240 samples/hour 0.01 to 2.5 mg (P)/L 10 cm flow cell Fast FIA Manifold Total Phosphorus (mid) 80 samples/hour 0.1 to 25 mg (P)/L 1 cm flow cell Fast FIA Manifold Total Phosphorus (low) 80 samples/hour 0.1 to 2.5 mg (P)/L 1 cm flow cell Chloride (Mid) 120 samples/hour 1 to 50 mg Cl-/L 1 cm flow cell Silica (Mid to High) 60 samples/hour 0.1 to 5 mg Cl-/L 10 cm flow cell Silica (Low) 60 samples/hour 0.5 to 300 mg /L 1 cm flow cell Silica (Ultra Low) 40 samples/hour 0.02 to 6 mg /L 50 cm flow cell Sulfate (Mid-high) 120 samples/hour 100 to 500 mg SO4/L 1 cm flow cell Sulfate (Low) 60 samples/hour 100 to 500 mg SO4/L 1 cm flow cell In cm flow cell Sulfate (Low) 60 samples/hour 100 to 500 mg SO4/L 1 cm flow cell Incomedia Sulfate (Low) 60 samples/hour 100 to 500 mg SO4/L 1 cm flow cell Incomedia Sulfate (Low) 60 samples/hour 100 to 500 mg SO4/L 1 cm flow cell Incomedia In	Ammonia (Ultra Low)	45 samples/hour	0.001 to 0.5 mg (N)/L	Fluorometric	OPA Method
Total Nitrogen 30 samples/hour 0.01 to 0.1 mg (N)/L 10 cm flow cell In-line UV Digestion Phosphate (Mid to High) 120 samples/hour 0.1 to 25 mg (P)/L 1 cm flow cell Ortho/Bray/Olsen Phosphate (Low) 60 samples/hour 0.002 to 0.5 mg (P)/L 50 cm flow cell Ortho/Bray/Olsen Phosphate (Ultra Low) 45 samples/hour 0.002 to 0.5 mg (P)/L 50 cm flow cell Ortho/Bray/Olsen Phosphate (Mid to High) 360 samples/hour 0.1 to 25 mg (P)/L 1 cm flow cell Fast FIA Manifold Fast Phosphate (Low) 240 samples/hour 0.1 to 25 mg (P)/L 1 cm flow cell Fast FIA Manifold Total Phosphorus (mid) 80 samples/hour 0.1 to 25 mg (P)/L 1 cm flow cell Total Phosphorus (low) 80 samples/hour 0.1 to 2.5 mg (P)/L 1 cm flow cell Chloride (Mid) 120 samples/hour 1 to 50 mg Cl-/L 1 cm flow cell Chloride (Low) 60 samples/hour 0.1 to 5 mg Cl-/L 10 cm flow cell Silica (Mid to High) 60 samples/hour 0.5 to 300 mg /L 1 cm flow cell Silica (Ultra Low) 40 samples/hour 0.05 to 30 mg /L 10 cm flow cell Sulfate (Mid-high) 120 samples/hour 0.02 to 6 mg /L 50 cm flow cell Sulfate (Mid-high) 120 samples/hour 100 to 500 mg SO4/L 1 cm flow cell Sulfate (Low) 60 samples/hour 100 to 500 mg SO4/L 1 cm flow cell Iron (Mid) 140 samples/hour 0.025 to 100 mg/L 1 cm flow cell Iron (Mid) 140 samples/hour 0.025 to 100 mg/L 10 cm flow cell Iron (Mid) 140 samples/hour 0.0025 to 100 mg/L 10 cm flow cell	TKN (Mid)	120 samples/hour	1.0 to 300 mg (N)/L	10 cm flow cell	Batch Digestion
Phosphate (Mid to High) Phosphate (Low) Phosphate (Low) Phosphate (Low) Phosphate (Ultra Low) Phosphate (Ultra Low) Phosphate (Ultra Low) Phosphate (Mid to High) Fast Phosphate (Mid to High) Past Phosphate (Low) Phosphate (Low) Phosphate (Low) Phosphate (Low) Phosphate (Mid to High) Phosphate (Low) Phosphorus (mid) Phosphorus (mid) Phosphorus (Iow)	Total Nitrogen	30 samples/hour	0.1 to 5 mg (N)/L	1 cm flow cell	In-line UV Digestion
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Phosphate (Ultra Low) 45 samples/hour 0.002 to 0.5 mg (P)/L 50 cm flow cell Ortho Fast Phosphate (Mid to High) 360 samples/hour 0.1 to 25 mg (P)/L 1 cm flow cell Fast FIA Manifold Fast Phosphate (Low) 240 samples/hour 0.01 to 2.5 mg (P)/L 10 cm flow cell Fast FIA Manifold Total Phosphorus (mid) 80 samples/hour 0.1 to 25 mg (P)/L 1 cm flow cell Total Phosphorus (low) 80 samples/hour 0.01 to 2.5 mg (P)/L 10 cm flow cell Chloride (Mid) 120 samples/hour 1 to 50 mg CI-/L 1 cm flow cell Chloride (Low) 60 samples/hour 0.1 to 5 mg CI-/L 10 cm flow cell Silica (Mid to High) 60 samples/hour 0.5 to 300 mg /L 1 cm flow cell Silica (Ultra Low) 40 samples/hour 0.02 to 6 mg /L 50 cm flow cell Sulfate (Mid-high) 120 samples/hour 100 to 500 mg SO4/L 1 cm flow cell Sulfate (Low) 60 samples/hour 2 to 200 mg SO4/L 1 cm flow cell Iron (Mid) 140 samples/hour 0.025 to 100 mg/L 1 cm flow cell Iron (Low) 70 samples/hour 0.0025 to 10 mg/L 10 cm flow cell	Phosphate (Mid to High)	120 samples/hour	0.1 to 25 mg (P)/L	1 cm flow cell	Ortho/Bray/Olsen
Fast Phosphate (Mid to High) 360 samples/hour 0.1 to 25 mg (P)/L 1 cm flow cell Fast FIA Manifold Fast Phosphate (Low) 240 samples/hour 0.01 to 2.5 mg (P)/L 10 cm flow cell Fast FIA Manifold Total Phosphorus (mid) 80 samples/hour 0.1 to 25 mg (P)/L 1 cm flow cell Total Phosphorus (low) 80 samples/hour 0.01 to 2.5 mg (P)/L 10 cm flow cell Chloride (Mid) 120 samples/hour 1 to 50 mg CI-/L 1 cm flow cell Chloride (Low) 60 samples/hour 0.1 to 5 mg CI-/L 10 cm flow cell Silica (Mid to High) 60 samples/hour 0.5 to 300 mg /L 1 cm flow cell Silica (Low) 60 samples/hour 0.05 to 30 mg /L 10 cm flow cell Silica (Ultra Low) 40 samples/hour 0.02 to 6 mg /L 50 cm flow cell Sulfate (Mid-high) 120 samples/hour 100 to 500 mg SO4/L 1 cm flow cell Sulfate (Low) 60 samples/hour 2 to 200 mg SO4/L 10 cm flow cell Iron (Mid) 140 samples/hour 0.025 to 100 mg/L 1 cm flow cell Iron (Low) 70 samples/hour 0.0025 to 10 mg/L 10 cm flow cell	Phosphate (Low)	60 samples/hour	0.01 to 2.5 mg (P)/L	10 cm flow cell	Ortho/Bray/Olsen
Fast Phosphate (Low) 240 samples/hour 0.01 to 2.5 mg (P)/L 10 cm flow cell Fast FIA Manifold Total Phosphorus (mid) 80 samples/hour 0.1 to 25 mg (P)/L 1 cm flow cell Total Phosphorus (low) 80 samples/hour 0.01 to 2.5 mg (P)/L 10 cm flow cell Chloride (Mid) 120 samples/hour 1 to 50 mg CI-/L 1 cm flow cell Chloride (Low) 60 samples/hour 0.1 to 5 mg CI-/L 10 cm flow cell Silica (Mid to High) 60 samples/hour 0.5 to 300 mg /L Silica (Low) 60 samples/hour 0.05 to 30 mg /L Silica (Ultra Low) 40 samples/hour 0.02 to 6 mg /L Sulfate (Mid-high) 120 samples/hour 100 to 500 mg SO4/L Sulfate (Low) 60 samples/hour 100 to 500 mg SO4/L 1 cm flow cell Sulfate (Low) 60 samples/hour 100 to 500 mg SO4/L 1 cm flow cell	Phosphate (Ultra Low)	45 samples/hour	0.002 to 0.5 mg (P)/L	50 cm flow cell	Ortho
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Total Phosphorus (low) 80 samples/hour 0.01 to 2.5 mg (P)/L 10 cm flow cell Chloride (Mid) 120 samples/hour 1 to 50 mg Cl-/L 1 cm flow cell Chloride (Low) 60 samples/hour 0.1 to 5 mg Cl-/L 10 cm flow cell Silica (Mid to High) 60 samples/hour 0.5 to 300 mg /L 1 cm flow cell Silica (Low) 60 samples/hour 0.05 to 30 mg /L 10 cm flow cell Silica (Ultra Low) 40 samples/hour 0.02 to 6 mg /L 50 cm flow cell Sulfate (Mid-high) 120 samples/hour 100 to 500 mg SO4/L 1 cm flow cell Sulfate (Low) 60 samples/hour 2 to 200 mg SO4/L 10 cm flow cell Iron (Mid) 140 samples/hour 0.025 to 100 mg/L 1 cm flow cell Iron (Low) 70 samples/hour 0.0025 to 10 mg/L 10 cm flow cell	Fast Phosphate (Low)	240 samples/hour	0.01 to 2.5 mg (P)/L	10 cm flow cell	Fast FIA Manifold
Chloride (Mid) 120 samples/hour 1 to 50 mg CI-/L 1 cm flow cell Chloride (Low) 60 samples/hour 0.1 to 5 mg CI-/L 10 cm flow cell Silica (Mid to High) 60 samples/hour 0.5 to 300 mg /L 1 cm flow cell Silica (Low) 60 samples/hour 0.05 to 30 mg /L 10 cm flow cell Silica (Ultra Low) 40 samples/hour 0.02 to 6 mg /L 50 cm flow cell Sulfate (Mid-high) 120 samples/hour 100 to 500 mg SO4/L 1 cm flow cell Sulfate (Low) 60 samples/hour 2 to 200 mg SO4/L 10 cm flow cell Iron (Mid) 140 samples/hour 0.025 to 100 mg/L 1 cm flow cell Iron (Low) 70 samples/hour 0.0025 to 10 mg/L 10 cm flow cell	Total Phosphorus (mid)	80 samples/hour	0.1 to 25 mg (P)/L	1 cm flow cell	
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Silica (Mid to High) 60 samples/hour 0.5 to 300 mg /L 1 cm flow cell Silica (Low) 60 samples/hour 0.05 to 30 mg /L 10 cm flow cell Silica (Ultra Low) 40 samples/hour 0.02 to 6 mg /L 50 cm flow cell Sulfate (Mid-high) 120 samples/hour 100 to 500 mg SO4/L 1 cm flow cell Sulfate (Low) 60 samples/hour 2 to 200 mg SO4/L 10 cm flow cell Iron (Mid) 140 samples/hour 0.025 to 100 mg/L 1 cm flow cell Iron (Low) 70 samples/hour 0.0025 to 10 mg/L 10 cm flow cell	Chloride (Mid)	120 samples/hour	1 to 50 mg CI-/L	1 cm flow cell	
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Silica (Ultra Low) 40 samples/hour 0.02 to 6 mg /L 50 cm flow cell Sulfate (Mid-high) 120 samples/hour 100 to 500 mg SO4/L 1 cm flow cell Sulfate (Low) 60 samples/hour 2 to 200 mg SO4/L 10 cm flow cell Iron (Mid) 140 samples/hour 0.025 to 100 mg/L 1 cm flow cell Iron (Low) 70 samples/hour 0.0025 to 10 mg/L 10 cm flow cell	Silica (Mid to High)	60 samples/hour	0.5 to 300 mg/L	1 cm flow cell	
Sulfate (Mid-high) 120 samples/hour 100 to 500 mg SO4/L 1 cm flow cell Sulfate (Low) 60 samples/hour 2 to 200 mg SO4/L 10 cm flow cell Iron (Mid) 140 samples/hour 0.025 to 100 mg/L 1 cm flow cell Iron (Low) 70 samples/hour 0.0025 to 10 mg/L 10 cm flow cell	Silica (Low)	60 samples/hour	0.05 to 30 mg/L	10 cm flow cell	
Sulfate (Low) 60 samples/hour 2 to 200 mg SO4/L 10 cm flow cell Iron (Mid) 140 samples/hour 0.025 to 100 mg/L 1 cm flow cell Iron (Low) 70 samples/hour 0.0025 to 10 mg/L 10 cm flow cell	Silica (Ultra Low)	40 samples/hour	0.02 to 6 mg/L	50 cm flow cell	
Iron (Mid)	Sulfate (Mid-high)	120 samples/hour	100 to 500 mg SO4/L	1 cm flow cell	
Iron (Low) 70 samples/hour 0.0025 to 10 mg/L 10 cm flow cell	Sulfate (Low)	60 samples/hour	2 to 200 mg SO4/L	10 cm flow cell	
	Iron (Mid)	140 samples/hour	0.025 to 100 mg/L	1 cm flow cell	
Iron (Ultra Low) 45 samples/hour 0.0005 to 0.2 mg/L 50 cm flow cell	Iron (Low)	70 samples/hour	0.0025 to 10 mg/L	10 cm flow cell	
	Iron (Ultra Low)	45 samples/hour	0.0005 to 0.2 mg/L	50 cm flow cell	

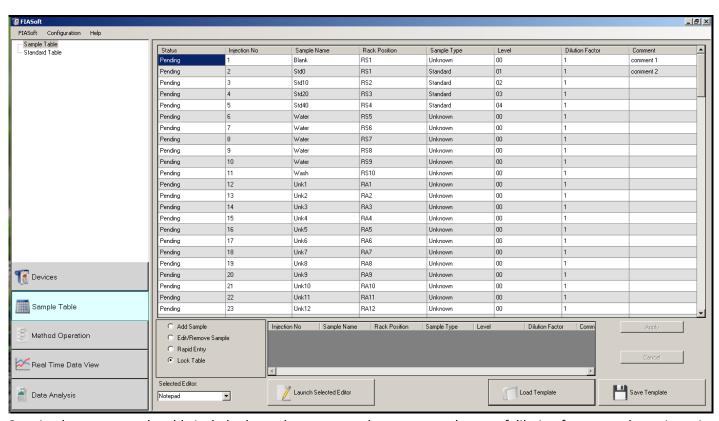




FIAsoft is a completely new software for FIAlyzers written in C#. It is a powerful and user-friendly software package based on state-of-the-art programming technology. FIAsoft offers the following unique features:

Improved User Interface

- **Faster and simpler configuration:** FIAsoft can auto-detect and configure many devices, while still allowing experienced users to tweak advanced settings.
- Easy-to-use and streamlined interface: FIAsoft's new interface is clean and easy to follow.
 Operations flow logically from one step to the next, allowing for smoother and faster operation.
- **Improved sample entry:** New features exist for entering and managing samples, including support for barcode readers, sample commenting, a dedicated standard table, and many others.
- **Enhanced plotting capabilities:** Plots and graphs in FIAsoft are faster and more responsive than ever before, allowing for smooth zooming, panning, and detailed inspection of data.



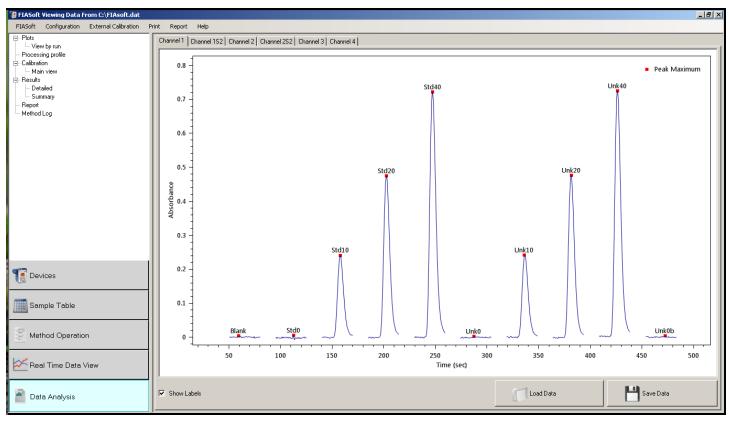
Our simple to use sample table includes barcode entry, sample comments, the use of dilution factors, and easy insertion of new samples, even during a run!

FIAsoft



Improved Data Processing and Reliability

- Modern, database driven data management: FIAsoft's new SQL database backend improves the speed and reliability of data collection.
- Faster, robust multithreaded data collection: Data collection is done in an asynchronous, multithreaded environment, allowing detectors to operate completely independent of one another and any other processes running on the computer. This allows FIAsoft to achieve a high level of data throughput and reliability.
- **Improved data processing:** New filtering and background correction algorithms exist to improve data quality and minimize noise.
- Support for up to 8 channels: Efficient programming allows FIAsoft to manage more data than ever before. FIAsoft is capable of monitoring many types of detectors and can gather data from up to 8 channels.
- **Improved reliability:** FIAsoft has been rigorously tested to ensure stability and highly robust operation. FIAsoft is designed to meet the requirements of even the most demanding high volume laboratories.



New plotting capabilities in FIAsoft allow for smooth zooming, panning, and detailed data inspection. Results are displayed graphically as well as in tables and results can be exported in a variety of formats.