

Technical Features

Measuring System	
Operating mode	Absorbance, End-Point (Up to 8 standards), Fixed Time, Kinetic, Differential, Turbidimetric (photometric reading)
Throughput	Up to 180 tests/hour (mono or bireagent); 300 test with ISE.
Light source	12V 20W halogen lamp
Spectral Range	320-690nm
Filter Wavelength	340, 405,450, 492, 505, 546, 578, 630 nm, two free position
Optics	Solid state detectors, static interferential filters Mode True Random Access, Walk Away Analyser, Continuous sample loading
Sample Handling	
Sample number	75 positions including samples, calibrators, controls, blank
Sample container	75 mm or 100 mm, 13 mm diameter primary tubes, pediatric Cup (1.2 ml) (adapters included)
Sample volume	1.5 uL to 50 uL (0.1 uL steps)
Specimen	Serum, Plasma, CSF, Urine, Blood
Priority levels	STAT, Pediatric, Normal, suspended and rerun
Hardware	Dedicated arm, dedicated syringe (500 uL), level sensor on needle, motorized tray
Barcode	Manual, for all the samples during positioning
Automatic dilution	Pre and post dilution performed automatically or on request
Worklist	Up to 5 worklist (stat, routine, suspended, pediatric, rerun)
Reagent Handling	
Reagent tray	27 bottles for R1 (50 mL) cooled 9 independent bottles (10 mL) for R2 cooled
Cooling system	Peltier based, convective forced air, integrated for both R1 and R2, stand-by by independent switch
Reagent volume	R1 and R2: 20 to 500 uL (0.1 uL steps)
R1 hardware	1000 uL independent syringe, dedicated arm, preheating system on needle, liquid detection on needle, cooling system on carousel, motorized tray
R2 hardware	1000 uL independent syringe, dedicated arm, preheating system on needle, liquid detection on needle, cooling system on tray, static tray
Barcode	Manual, for all the reagents during positioning
Reaction Tray	
Number of wells	60 optic bionex plastic reaction cells
Reading volume	180 to 500 uL
Well temperature	37°C; ± 0.1°C controlled by Peltier and microprocessor
Washing System	
Reaction Wells	11 steps washing station
Waste	Automatic separation of concentrated and diluted waste
R1 needle	Automatic internal and external washing by dedicated wash station
R2 needle	Automatic internal and external washing by dedicated wash station
Sample needle	Automatic internal and external washing by dedicated wash station
Alarm for Diluted waste full	Yes by sensor, runtime
Alarm for conc. Waste full	Yes by sensor, runtime
Alarm for wash, solution dry	Yes by sensor, runtime
Software/Interface/Other	
Personal Computer	External. Minimum requirement: CPU 3.0 GHz, Hard disk 20GB, 1024 MB RAM, Microsoft Windows XP or 2000 @, 1 RS-232, 1 LPT, USB
Printer	External
Communication	USB or RS-232
Power supply	AC 110-230V, autosense, 50/60 Hz
Power consumption	400 Watt
Working temperature	15 - 30 °C
Patient entry	By workplan or barcode
Quality control	Levey-Jennings and Westgaard rules
Other features	Run time monitor, continuous sample loading, full spectrum display

Biochemical Systems International Srl reserves the right to change specifications without prior notice.

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