

TECHNICAL SPECIFICATION

SYSTEM FUNCTION	
System	Discrete random access automated analyzer
Throughput	Constant 200 Tests/hour (Single / Double reagent)
Analysis method	1 point-end, 2 point-end, Fixed Time, Kinetic
SAMPLE & REAGENT SYSTEM	
Sample positions	40 sample positions
Sample & reagent probe	1 independent multi-functional mirror polished probe
Sample tube	Micro-cup & blood collection tubes
Sample volume	2-30 μ l with 0.1 μ l stepping
Sample probe features	Liquid level detection, collision protection, timely tracking of liquid volume
Reagent positions	80 reagent positions / 40 reagent positions with optical barcode system
On-board cooling	Non-stop on-board cooling through dual-peltier
Reagent volume	20-300 μ l with 1 μ l stepping
Sample & reagent probe cleaning	Automatic washing both interior and exterior
REACTION SYSTEM	
Reaction tray	44 semi-permanent reaction cuvettes
Cuvette specification	Individually positioned amorphous optical plastic reaction-cups
Reaction volume	150 μ l - 300 μ l
Reaction temperature	Peltier pad incubation with 37°C $\pm$ 0.1°C
Reaction cuvette cleaning	On-board 3 x 4 stage cuvette washing with cuvette verification
MIXING SYSTEM	
Mixer	Paddle-type mixer for homogeneous mixing, carry-over reduction technology
OPTICAL SYSTEM	
Light source	Halogen lamp
Wavelength	8 wavelengths: 340nm, 405nm, 450nm, 505nm, 546nm, 578nm, 630nm, 700nm (4 free optional positions)
Absorbance range	0-4 Abs
Resolution	0.0001Abs
CALIBRATION AND QC	
Calibration rules	9 types (1 point linear, 2 point linear, Exponential, Logit-lop 3P / 4P / 5P, Multi-point linear, Spline, Line graph)
Control rule	Westgard multi-rule, L-J plot
OPERATING SYSTEM	
Operating system	Windows XP/Windows 7/Windows 8/Windows 10
Data processing	Automatic calibration, test combination, effective time management of reagents, blank deduction, dirty cuvette memory, cross infection prevention, patient information memory and associated input, report statistics and printing etc.
Report printing	6 formats optional, support custom pattern
Interface	TCP / IP network interface
WORKING CONDITIONS	
Power supply	Ac110 / 220V $\pm$ 10%, 50 / 60Hz, 650W
Temperature	15-30°C
Humidity	35-80%
Water requirement	Average 4-5 L / H with typical workload, max. 8 L / H with 200 T / H in double reagents
WEIGHT & SIZE	
Dimensions (LxWxH)	870mm x 690mm x 740mm
Weight	~80 Kg



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Automatic Random Access
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Medium throughput Random Access Analyzer
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PIPETTING SYSTEM

- Multi-functional sampling probe with external and internal mirror polish ensuring no carry over
- Dedicated probe equipped with liquid level detection, auto-probe depth adjustment and collision protection
- Separate paddle type mixer for effective mixing
- Internal and external probe washing with jet force ensuring no carry-over

ON-BOARD WASHING

- A true walk-away system
- Equipped with 4 probes and 3 x 4 stage on-board laundry with drying steps for each cuvette
- Maintenance free pumps for better economy
- Cuvette verification facility to ensure optical perfection of cuvette

REAGENT AND SAMPLE CAROUSEL

- 80 reagent position with maintenance free 24-hour cooled compartment for better reagent stability
- Continuous sample loading at 40 sample positions
- Automatic pre & post dilution of samples
- Compatible with primary tubes & sample cups
- Dedicated system pack reagents for superior performance

REACTION CAROUSEL

- 44 individually positioned high quality semi-permanent reaction cuvettes ensuring long life
- Temperature maintained reaction carousel at $37^{\circ}\text{C} \pm 0.2^{\circ}\text{C}$

OPTICAL SYSTEM

- 8 on-board wavelengths from 340nm - 700nm with 4 optional positions covering all routine biochemistry and immunoturbidimetry tests
- Equipped with array optical splitter, a new generation optical assembly
- Integrated fully closed optical system to avoid any external interference of light

UNIQUE PROPOSITIONS

A true work away system with constant 200 Tests / hour with double reagent, typically suitable for high workload lab

Equipped with maintenance free multi-functional sampling probe backed by new generation, maintenance free high precision ceramic piston based syringe pump

Internal & external intelligent probe washing with Jet Force ensuring no carry-over

Advanced optical fibre based array optical splitter ensures long life of optical assembly & helps in multi-wavelength simultaneous detection

Versatile & user friendly software interface