TECHNICAL SPECIFICATION

System type	:	Automated, Discrete , Random access Clinical Chemistry System
Throughput	:	640 tests/hour (with ISE) / 400 photometric tests/hour (without ISE)
On board tests	:	53 items Max (3 Dilution Positions)
Programmable Parameters	:	96 photometric tests, 40 calculation items, Serum Indices, 3 ISE tests (Optional)
Analytical Methods	:	1-Point , 2-Point, Rate-A, Rate-B
Calibration	:	Linear, Non-Linear, Multi Point, K Factor
Sample Disk	:	*Sample Tray*
		• Inner ring: 25 positions for routine patient samples
		• Outer ring: 25 positions for routine patient samples (Optional 5 positions for STAT)
		Standard Tray
		• Inner ring: 2 Blanks, 8 Controls, 2 ISE solutions (Optional),
		• Outer ring: 20 positions each on Disk 1 & Disk 2 separately for Standard's / STAT's
Sample Pipetting	:	2-70 µl (adjustable in 0.2 µl step) Capacitance probe with level sensing & vertical obstruction detection Clot detection facility
Sample Tubes / Cups	:	Primary tubes of 5 , 7 and 10 ml and sample cups
Barcode reader	:	Both for sample and reagent trays (optional)
Reagent Tray	:	56 reagent positions with on board cooling (3 positions are reserved for diluents and wash solution)
Reagent Pipetting	:	Two separate probes for Reagent 1 & 2
		Reagent 1: 60-300 µl (adjustable in 1 µl step)
		Reagent 2: 0 or 10-300 µl (adjustable in 1 µl step)
		Capacitance probes with level sensing & vertical obstruction detection
Reaction tray	:	72 Hard Glass Cuvettes maintained at 37 ± 0.2 °C
Reading Volume	:	180 ul
Quality control	:	Levy Jennings Quality control program & twin plot
Utility programs	:	Detergent / Reagent Wash, Probe Wash, Cuvette Skipping, Forbidden Pairs
Photometry	:	Monochromatic and Bi-chromatic measurements with 12 wavelengths: 340, 376, 415, 450, 480, 505, 546, 570, 600, 660, 700 and 750 nm with multi-wavelength diffraction grating
OD range	:	0-2.5 Abs
Light source	:	Halogen lamp (12V/20W)
Detector	:	Static , Silicon photo-diodes
Water consumption	:	Upto 13 ltrs per hour
System interface	:	RS-232C bi-directional for PC Interface , Pentium IV or higher
Power Requirement	:	AC 110 V ± 10%, 60 ± 1 Hz or AC 220 V ± 10%, 50 ±1 Hz (factory set) / 600 V (excluding PC/Printer/Monitor)
Dimensions	:	Approximately 910 mm (W) X 780 mm(D) X 1160 mm(H)
Weight	:	Approximately 200 kg

Note : As part of Product Improvement above specifications are subject to change without prior notice.

CE

XL 640

Automated Random Access Clinical Chemistry System

Technology Redefined
Technology Redefined

XL 640

Automated, Discrete, Random Access Clinical Analyzer with throughput of 640 test/hr with ISE. 400 photometeric tests

Diffraction grating with 12 wavelengths from 340nm-750nm

Extensive database for storing patient data and Q.C. Data

Capacitance probes with level sensing and Vertical Obstruction Detection (VOD)

Low Reagent consumption with minimum reaction volume of 180ul

56 position reagent tray with on board cooling

Sample Clot Detection for better accuracy

User friendly Windows based software

Result Re-calculation facility

Auto Dilution & Auto Rerun

- 50 position sample tray
- STAT samples introduction
- Facility to use Primary tubes of 5ml, 7ml, 10ml & sample cups

- Separate probes for Reagent 1 & 2
- Vertical Obstruction detection for reagent as well as sample probes
- Sample probe with CLOT detection feature

- 56 reagent positions with on-board cooling
- 50ml & 20 ml reagent bottles
- Online inventory management
- Multiple reagent positions

- Two mixers to ensure proper mixing of Reagent 1 & 2 with sample
- Variable speed adjustment for the mixer to ensure proper mixing

- 72 long life Hard Glass cuvettes
- On-board washing station for better precision & accuracy
- Individually replaceable cuvettes
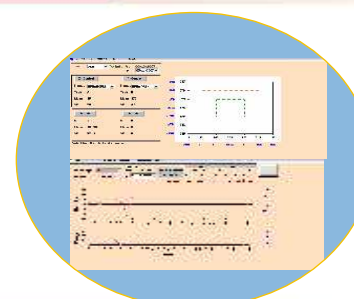
- Extensive quality control program to ensure quality results
- Daily & Monthly L-J graph
- Twin plot graph to differentiate between systematic & random errors