

System Type	Automated, Discrete, Random Access, Patient Prioritized, Clinical Chemistry Analyzer
Throughput	400 photometric tests/hour and 640 tests/hour with ISE (optional)
Programmable Parameters	Default system pack parameters + upto 10 user defined parameters
Analytical Methods	1 point, 2 point, Rate A, Rate B, Potentiometry - optional
Photometer	Monochromatic and Bi-chromatic Measurement. 12 Prefixed wavelengths from the photometric range of 340 - 750 n.m. (340, 376, 415, 450, 480, 505, 546, 570, 600, 660, 700 & 750 n.m.)
O.D. Range	0-3.0 Absorbance
Sample Disc	82 Positions, all positions open for samples, STAT samples, calibrator (standards), controls and ISE solutions
Sample Pipetting	2-70 µl in steps of 0.1 µl
Probes	Dedicated sample probe and 2 probes for Reagents Capacitance based liquid level sensing and VOD Clot detection for sample Probe
Sample Container	Can hold primary tubes and sample cups.
Reagent tray	56 positions. 28 Positions each for 20 ml and 50 ml bottles. 5 ml tube adaptor
Reagent Pipetting	10-300 µl adjustable in 1 µl step.
Barcode Reader	For samples (optional)
Reaction Tray	72 reusable hard glass cuvettes maintained at 37°C ± 0.2°
Reading Volume	180 µl
Quality Control	Levey Jennings Quality Control Program and Twin Plot, Q.C. Rules
Dilution ratio	1:10 to 1:150
Light source	Halogen Lamp 12 V/ 20 W
Detector	Static Silicon Photodiodes
Water Consumption	Up to 14 ltrs per hour
System Interface	Bi-directional through USB
Power Requirement	AC 110 V ±10% Hz and 60 ±1 Hz or AC 220 V ±10 % Hz and 50±1 Hz (Factory set) 800 VA Excluding PC, Printer Monitor
Dimensions	Approximately 897 (L) x 655 (B) x 1170 (H)mm
Weight	Approximately 200 Kgs.

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

XL640

Automated Random Access
Clinical Chemistry System



Bio/05-2018/V5/Dom/Bro



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Technology Redefined





Empowered with High Turnaround

Ensures high degree precision with diffraction grating

Economical in use

Extensive Quality Control program

Easy to operate



Throughput of 640 tests per hr. with ISE (Na/K/Cl/Li)

Permanent Hard glass Cuvettes

Reading volume of 180 μ l

Direct ISE measurements Na/K/Cl/Li

Clot Detection

Vertical Obstruction Detection

Capacitance probes with liquid level detection

Auto Dilution and Auto Rerun

Bidirectional Connectivity



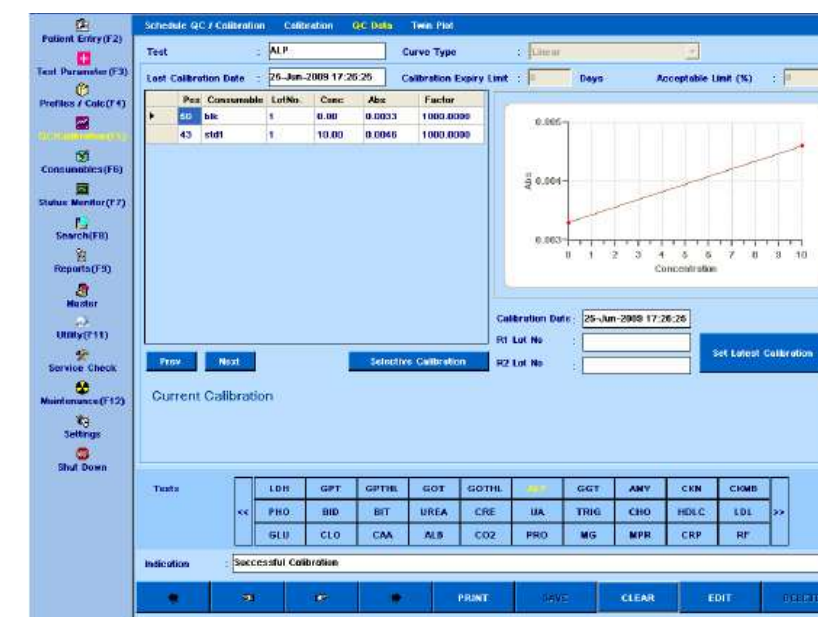
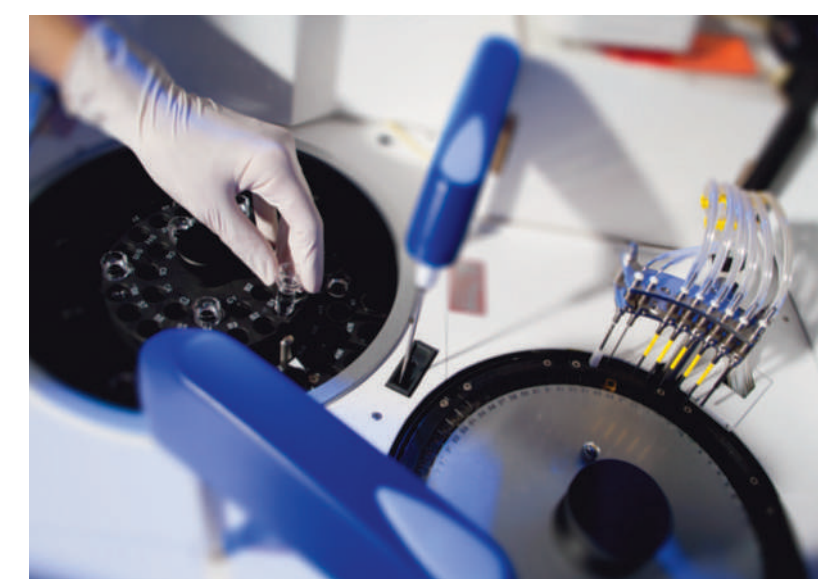
TEST MENU*

- Substrates
- Enzymes
- Electrolytes
- DOAs
- TDM
- Immunoturbidimetric Assays

Albumin	LDL-Cholesterol	ACP	Chloride	Apo A1
Bicarbonate	Magnesium	ALP	Potassium	Apo B
Bilirubin total	Phosphate	α -Amylase	Sodium	ASO
Bilirubin direct	Phospholipid	ChE	Carbamazepine	C3
Calcium	Total Protein	CK	Digitoxin	C4
Cholesterol	Triglycerides	CK-MB	Digoxin	CRP
Creatinine	Urea	GGT	Gentamicin	IgA
Glucose	Uric Acid	GOT (AST)	Phenytoin	IgG
HDL-Cholesterol	Microprotein	GPT (ALT)	Phenobarbital	IgM
Iron	Myoglobin	HBDH	Theophylline	Ferritin
Lactate	Microalbumin	LDH	Valproic Acid	HbA1c
		Lipase		NEFA-C
				RF
				Transferrin

* All chemistries may not be available from ERBA.

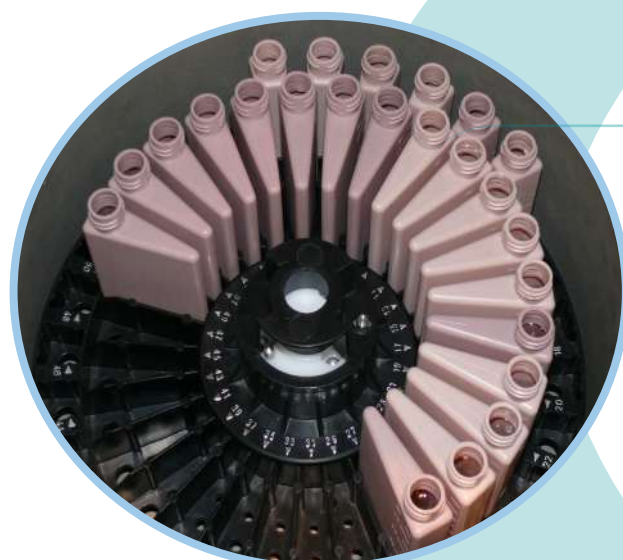
CALIBRATION



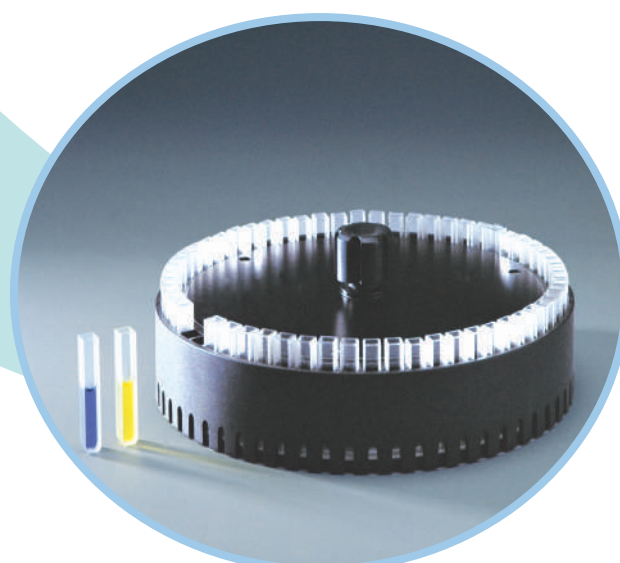
- 82 positions sample tray
- STAT samples can be loaded at any position
- Facility to use Primary tubes of 5 ml, 7 ml, 10 ml & sample cups



- 56 reagent positions with on-board cooling
- 50 ml & 20 ml reagent bottles, 5 ml adaptor tube
- Online inventory management
- Multiple reagent positions



- 72 long life Hard Glass cuvettes
- On-board washing station for better precision & accuracy
- Individually replaceable cuvettes

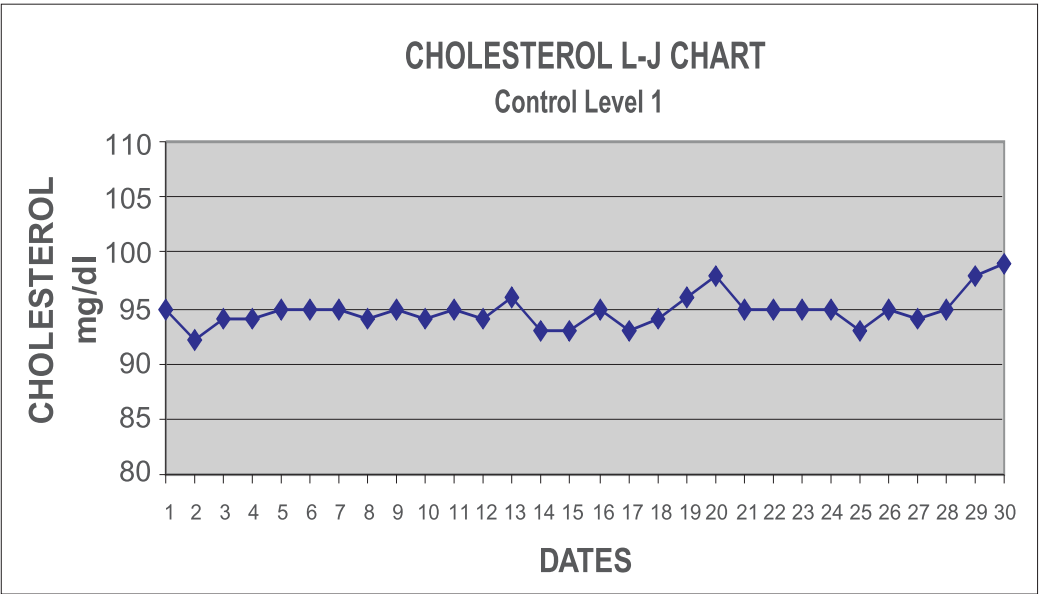
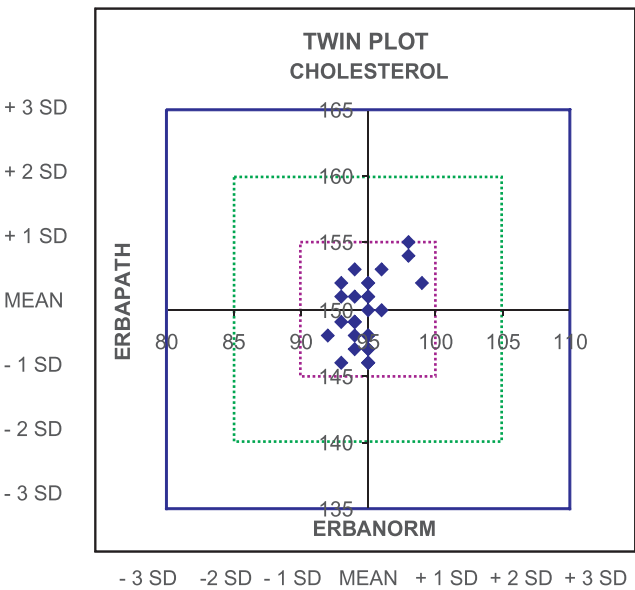




QUALITY CONTROL

XL 640 - provides option for both Levey-Jennings and Twin plot quality control charts in its software ;
thereby providing an added advantage to simultaneously monitor two level of controls for better quality management.

The Levy - Jennings chart is used to monitor performance of a single control level.



Youden Plots (Twin plot) is a quality chart that involves usage of both normal and abnormal controls and graphically helps to differentiate between systematic and random errors.



ERBA SYSTEM PACKS

FOR FULLY AUTOMATED BIOCHEMISTRY ANALYSERS



S.NO.	PRODUCT CODE	PRODUCT NAME	METHOD	LINEARITY	PACK SIZE
1	120265	ALBUMIN	BCG	6 g/dl	10 X 44 ML
2	121018	ALP	IFCC, AMP	700 U/L	R1-2 X 44 ML : R2-2 x 11 ML
3	121026	AMYLASE	CNPG3	1500 U/L	5 X 22 ML
4	120623	BID	DIAZO	25 mg/dl	R1-6X 44ML : R2-3 X 22ML
5	120621	BIT	DIAZO	25 mg/dl	R1-6X 44ML : R2-3 X 22ML
6	120262	CALCIUM (A)	ARSENAZO	16 mg/dl	10 x 12 ML
7	120263	CHLORIDE	MERCURIC THIOCYANATE	130 mEq/L	10 X 12 ML
8	121021	CHOLESTEROL	CHOD POD	750 mg/dl	10 X 44ML
9	120619	CK	DGKC & IFCC	1000 U/L	R1-2 X 44 ML : R2-2 x 11 ML
10	120620	CK MB	IMMUNOINHIBITION	1000 U/L	R1-2 X 44 ML : R2-2 x 11 ML
11	121022	CREATININE	ALKALINE PICRATE	20 mg/dl	R1-5 X 44 ML : R2-5 X 11ML
12	121019	GGT	SZASZ	500 U/L	R1-2 X 44 ML : R2-2 x 11 ML
13	120266	GLUCOSE	GOD POD (with mutarotase)	500mg/dl	10 X44 ML
14	120706	HDL DIRECT	Modified PEGME	184.8 mg/dl	R1-4 x 30 ML : R2-4 x 10ML
15	121020	LDH-P	DGKC	1000 U/L	R1-2 X 44 ML : R2-2 x 11 ML
16	120707	LDL DIRECT	IMMUNOINHIBITION	250mg/dl	R1-2 X 30ML : R2-2 X 10ML
17	120624	MAGNESIUM	Calmagite	4 mg/dL	2x44 ML
18	120261	MICROPROTEIN	PYROGALLOL RED	400mg/dl	10 X 12 ML
19	120264	PHOSPHORUS	UV PHOSPHOMOLYBDATE	15mg/dl	10 X12 ML
20	120271	SGOT	MODIFIED IFCC	240U/L	R1-6 X 44ML : R2-3 X 22ML
21	120272	SGPT	MODIFIED IFCC	240U/L	R1-6 X 44ML : R2-3 X 22ML
22	120267	TOTAL PROTEIN	BIURET	16g/dl	10 X 44 ML
23	121024	TRIGLYCERIDES-SR	GPO	600 mg/dL	10 x 44 ML
24	121025	UREA	UREASE GLDH	300mg/dl	R1-5 X 44 ML : R2-5 X 11ML
25	121023	URIC ACID - SR	URICASE	25 mg/dl	10 x 44 ML
26	120218	ERBA NORM	NA	NA	4 x 5 ML
27	120220	ERBA PATH	NA	NA	4 x 5 ML
28	120958	ERBA AUTO WASH	NA	NA	10 x 100 ML
29	120611	XL MULTICAL	NA	NA	4 X 3 ML
30	121051	HBA1c	IMMUNOTURBIDIMETRY	18%	R1 1 X 4 ML/ R2(a) 1 X 8 ML/ R2 (b) 1 X 4 ML/ R3 2 X 50 ML/