



MEET THE XL-1000

Fully automatic clinical chemistry analyzer



Making Automation Affordable
for Labs Everywhere

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Fully automatic clinical chemistry analyzer

Reliable and Efficient solution for medium and large laboratories.



DISPENSING OF SAMPLE AND REAGENT

- Sample volume: 2–60 μl (0.1 μl step), 70 μl with ISE
- Reaction volume: 150 μl –550 μl
- Clot detection
- 3 dispensing probes (R1, R2/R3) equipped with liquid – level sensor and crash detector
- Auto-dilution of samples and calibrators



SAMPLE AUTOLOADER

- 115 sample positions on automatic autoloader
- Primary tubes 5, 7 and 10 ml, vacuum system tubes
- Barcode reader for sample identification
- 23 racks



REAGENT, STAT AND REACTION TRAYS

- Reagent Trays: 2×43 cooled positions
- System packs: 50 ml, 20 ml and 5 ml (adapter)
- Barcode reader for easy identification
- Stat Tray: 45 positions
- Can be used for blank, controls, STAT samples
- Reaction Tray: Mixing system with 3 speed levels
- 147 hard glass reaction cuvettes
- Wash station: cuvette rinsing and drying
- Automatic cuvette blank measurement before analysis





Key features of XL-1000

QUALITY CONTROL

- 4 levels of control material can be used
- Levey-Jennigs graphs
- Twin Plot diagrams for monitoring of systematic and random error

SOFTWARE

- Convenient user interface
- Connection to LIS
- Programmable auto-start from sleep mode including automatic daily maintenance
- Statistical methods of processing results
- Data export in selected format

MEASUREMENT MONITORING

- Colour indication of sample analysis
- Option of monitoring the reaction in real time
- Reagent volume monitoring
- Informative reports on ongoing analyser status





Technical Specifications

System Type	Sample Type	
Discrete, automated, random access, patient prioritized, 1/2/3 reagent system	Serum, plasma, blood, urine, CSF, other biological fluids	
Throughput	Assay Modes	
800 photometric tests/hour	1-Point	Rate-A
1040/1155 tests/hour with ISE	2-Point	Rate-B
Measurement Principle	Reagent Tray	
End Point(s), Rate(s), Turbidimetric and Latex Enhanced Immunoassays, Direct Potentiometry (ISE)	Reagent 1 tray and Reagent 2 tray: 43 position each for 50 ml, 20 ml vials and 5 ml with adapter	
Applicable Analytes Photometric Assays	Calibration Type	
Enzymes, lipids, proteins, sugars, nitrides, inorganic substances, complements, immunoassays and others	Linear (one point, multi point), exponential, polynomial, factor, spline, Logit-Log 4P, Logit-Log 5P	
Programmable Parameters	Sample Volume	
No limit on Test parameters or calculated tests	2–60 µl (adjustable in 0.1 µl step) for Biochemistry, 70 µl (fixed) for ISE	
Barcode Identification	Safety Mechanism	
Sample Rack, Sample container, Reagent	Sample clot detection	
Water Consumption	Quality Control	
Up to 25 litres/hour	Levey-Jennigs graphs,	
Reaction Temperature	Reaction Volume	
37 °C	150 µl to 550 µl	
PC Requirements		
Operating system: Up to Win 10, Pentium Core 2 Duo, RAM 2 GB or above, HDD 200 GB, resolution 1024 × 768		



Dedicated Reagents on XL Instruments

Dedicated Reagents on XL Instruments				Pack Size		
				R1	R2	Test/Kit
Cat No.	Pack Name	Product Name	Method	Vials × Vol (mL)		XL640
XSYS0001	ALB 440	Albumin	BCG	10 × 44		2000
XSYS0002	ALP 110	Alkaline Phosphatase	IFCC, AMP	2 × 44	2 × 11	640
XSYS0003	AMY 110	Alpha Amylase	CNPG3	5 × 22		650
XSYS0017	ALT/GPT 330	ALT/GPT	Modified IFCC	6 × 44	6 × 11	1920
XSYS0102	Apo A	Apolipoprotein A	Latex Immunoturbidimetry	2 × 28	2 × 7	200
XSYS0103	Apo B	Apolipoprotein B	Latex Immunoturbidimetry	2 × 21	2 × 6	220
XSYS0046	ASO	Antistryptolysin (O)	Immunoturbidimetry	2 × 40	2 × 10	450
XSYS0016	AST/GOT 330	AST/GOT	Modified IFCC	6 × 44	6 × 11	1920
XSYS0028	BIL D 330	Bilirubin Direct	Walter & Gerard	6 × 44	6 × 11	1500
XSYS0086	BIL D DCA 330	Bilirubin Direct DCA	With DCA	6 × 44	6 × 11	1500
XSYS0023	BIL T 330	Bilirubin Total	Walter & Gerard	6 × 44	6 × 11	1500
XSYS0087	BIL T DCA 330	Bilirubin Total DCA	With DCA	6 × 44	6 × 11	1500
XSYS0007	CA 120	Calcium	Arsenazo	10 × 12		500
XSYS0008	CL 120	Chloride	Mercuric Thiocyanate	10 × 12		500
XSYS0009	CHOL 440	Cholesterol	CHOD POD	10 × 44		2000
XSYS0100	CO2	Bicarbonate (with CAL)	Enzymatic	4 × 34	Std 1×5	600
XSYS0047	CRP	C-Reactive Protein	Immunoturbidimetry	2 × 40	2 × 10	400
XSYS0084	CRP-HS	C-Reactive Protein HS	Immunoturbidimetry	2 × 40	2 × 8	300
XSYS0024	CREA 275	Creatinine	Jaffe	5 × 44	5 × 11	1600
XSYS0085	CREA ENZ 200	Creatinine Enzymatic	Enzymatic	5 × 30	5 × 10	900
XSYS0022	CK 110	Creatinine Kinase	IFCC & DGKCH	2 × 44	2 × 11	640
XSYS0029	CK MB 110	Creatinine Kinase MB	Immunoinhibition	2 × 44	2 × 11	500
XSYS0011	GGT 110	Gamma-Glutamyl Transferase	SZASZ	2 × 44	2 × 11	640
XSYS0012	GLU 440	Glucose	GOD POD	10 × 44		2000
XSYS0095	GLU HK 330	Glucose HK	Hexokinase	6 × 44	6 × 11 Std 1×4	1350
XSYS0096	HbA1c	HbA1c - 2R	Latex Immunoturbidimetry	2 × 21	2 × 7	230
XSYS0043	HDL C 160	HDL Direct	Direct Method PVS & PEG	4 × 30	4 × 10	600
XSYS0049	FE 125	Iron	Ferrozine	4 × 25	4 × 6,5	560
XSYS0101	FRTN	Ferritin	Latex Immunoturbidimetry	2 × 15	2 × 7,7	240
XSYS0013	LDH 110	Lactate Dehydrogenase - P	DGKCH	2 × 44	2 × 11	640
XSYS0044	LDL C 80	LDL Direct	Direct Method PVS & PEG	2 × 30	2 × 10	300
XSYS0081	LIP 110	Lipase	Enzymatic, colorimetric	2 × 44	2 × 11	640
XSYS0040	MG 88	Magnesium	Xylidyl Blue	2 × 44		400
XSYS0083	MAL	Microalbumin	Immunoturbidimetry	2 × 30	2 × 6,3	330
XSYS0027	MP 120	Microprotein	Pyrogallol Red	10 × 12	Std 1×5	500
XSYS0015	PHOS 120	Phosphorus	UV Phosphomolybdate	10 × 12		500
XSYS0048	RF	Rheumatoid Factor	Immunoturbidimetry	2 × 40	2 × 8	400
XSYS0018	TP 440	Total Protein	Biuret	10 × 44		2700
XSYS0041	TG 440	Triglycerides	GPO	10 × 44		2000
XSYS0050	UIBC 125	UIBC	Ferrozine	4 × 25	4 × 6,5 Std 1×4	560
XSYS0020	UREA 275	Urea	Urease GLDH	5 × 44	5 × 11	1250
XSYS0021	UA 275	Uric Acid	Uricase	5 × 44	5 × 11	1250
XSYS0042	UA 440	Uric Acid	Uricase	10 × 44		2000

We are an emerging player in in-vitro diagnostics, with a global footprint.
Our mission is to make automation affordable for labs everywhere.

Providing hospitals and labs with a full range of diagnostic instruments,
reagents and support services in more than 100 countries, our focus is on
improving health outcomes in developing nations.

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The Devices are in compliance with the IVDR requirements of CE marking
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