



MEET THE XL-640

Fully automatic clinical chemistry analyser



Making Automation Affordable
for Labs Everywhere

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Fully automatic clinical chemistry analyser

Ideal for medium size clinical laboratories with 70 - 250 samples / day.

With a new intuitive and powerful software with a user-friendly interface, and easy handling and control, the analyser XL-640 offers various functions which simplifies the laboratory work.

The equipment is LIS-connected and can efficiently process and graphically display samples. It can also statistically process the resulting data and export it into a required format



Key features of XL-640

Accessible

ENHANCES PRODUCTIVITY AND TURNAROUND TIME

Especially designed to be accessible to healthcare facilities and laboratories all over the world, the analyser XL-640 enhances productivity and turnaround time and can comfortably handle the demands of an increased workload



Reliable

MAXIMUM ACCURACY IN THE LABORATORY RESULTS

3 preheated probes (one for sample and 2 for reagents) and clot detector

Advanced diffraction. Photometer composed of 12 wavelengths

All components are made of solid materials to ensure precise measurement results with the highest sensitivity and linearity



Effective

HIGH PERFORMANCE AND EFFICIENCY

Throughput: 400 tests/hr (800 with ISE)

Rack autoloader for continuous sample loading

56 refrigerated positions for reagents

Only 5 minutes warm-up time from Stand-by



Technical Specifications

System Type	
Stand-alone automatic clinical chemistry analyser – random access system, STAT samples processing	
Throughput	Sample Type
400 photometric tests/hour for a cycle time of 9 seconds 800/667 tests/hour with ISE (optional)	Serum, plasma, blood, urine, CSF, other biological fluids
Measurement Principle	Assay Modes
Latex Turbidimetric Immunoassay, Colorimetry (Rate/End Point), Ion Selective Electrodes (optional)	Endpoint, 2-points, Fixed Time, Kinetics, ISE (direct potentiometry)
Sampling Unit	
Sample Volume: 2-70 µl (adjustable in 0.1 µl step) External Rack System: N. Sample Tubes/Rack: 4 Sample Rack Capacity: Loading: 20 Unloading: 15	Sample placement: Outer rim: 20 samples with/without Barcode STAT samples: With barcode: positions 1-20 Without barcode: positions 1-40
Reagent Unit	
Reagent Volume: R1: 60-300 µl (adjustable in 1 µl step), R2: 0 or 10-300 µl Reagent Tray: 56 refrigerated positions (4-12°C) for 50 ml, 20 ml vials and 5 ml with adapter Reagent Dispensing: 2 independent dispensing probes with liquid-level sensor	
Reaction Unit	
Reaction Tray: 72 reusable hard glass cuvettes, optical path length 5 mm Reaction Volume: 180 - 660 µl	Mixing System: Immersion. 2 mixers with 3 variable mixing speeds Cuvette Washing: Automatic in 8 washing operation steps

Barcode Identification	Safety Mechanism
Built-in barcode reader for samples and reagents	Sample clot detection
Optical System	
Type: Diffraction spectrophotometer with 12 wavelengths: 340, 376, 415, 450, 480, 505, 546, 570, 600, 660, 700 and 750 nm OD range: 0-3 Light source: Halogen lamp Detector: Silicon photo-diode array	
Calibration Type	Quality Control
Factor, Linear (one point, point-to-point), Multipoint (Exponential, Polynomial, Cubic Spline, Logit-Log 4P, Logit-Log 5P)nm	QC statistics for Serum and Urine parameters Graphs based on Westgard QC Rules
Water Consumption	
Maximum 13 litres/hour	
Computer Specifications	Power Source
Processor: Intel Core i3 (or higher) Operating System: Windows 10 Professional 32/64 USB Ports: 6 (minimum) Memory RAM: 4 GB minimum Disk Space: 500 GB minimum	AC 220 V + 10% or AC 110 V + 10%, 50 + 1 Hz or 60 + 1 Hz Power Consumption: 1000 VA
Ambient Temperature	Relative Humidity
15-30°C	40-80 %
Dimensions	Weight
1200 mm (w) 800 mm (d) 1200 mm (h)	230 Kg

Dedicated Reagents on XL Instruments

Dedicated Reagents on XL Instruments				Pack Size		
				R1	R2	Test/Kit
Cat No.	Pack Name	Product Name	Method	Vials x Vol (mL)		XL640
XSYS0001	ALB 440	Albumin	BCG	10 x 44		2000
XSYS0002	ALP 110	Alkaline Phosphatase	IFCC, AMP	2 x 44	2 x 11	500
XSYS0003	AMY 110	Alpha Amylase	CNPG3	5 x 22		500
XSYS0017	ALT/GPT 330	ALT/GPT	Modified IFCC	6 x 44	6 x 11	1500
XSYS0102	Apo A	Apolipoprotein A	Latex Immunoturbidimetry	2 x 28	2 x 7	200
XSYS0103	Apo B	Apolipoprotein B	Latex Immunoturbidimetry	2 x 21	2 x 6	200
XSYS0046	ASO	Antistreptolysin (O)	Immunoturbidimetry	2 x 40	2 x 10	400
XSYS0016	AST/GOT 330	AST/GOT	Modified IFCC	6 x 44	6 x 11	1500
XSYS0028	BIL D 330	Bilirubin Direct	Walter & Gerard	6 x 44	6 x 11	1200
XSYS0086	BIL D DCA 330	Bilirubin Direct DCA	With DCA	6 x 44	6 x 11	1500
XSYS0023	BIL T 330	Bilirubin Total	Walter & Gerard	6 x 44	6 x 11	1500
XSYS0087	BIL T DCA 330	Bilirubin Total DCA	With DCA	6 x 44	6 x 11	1500
XSYS0007	CA 120	Calcium	Arsenazo	10 x 12		500
XSYS0008	CL 120	Chloride	Mercuric Thiocyanate	10 x 12		500
XSYS0009	CHOL 440	Cholesterol	CHOD POD	10 x 44		2000
XSYS0100	CO2	Bicarbonate (with CAL)	Enzymatic	4 x 34	Std 1x5	600
XSYS0047	CRP	C-Reactive Protein	Immunoturbidimetry	2 x 40	2 x 10	400
XSYS0084	CRP-HS	C-Reactive Protein HS	Immunoturbidimetry	2 x 40	2 x 8	300
XSYS0024	CREA 275	Creatinine	Jaffe	5 x 44	5 x 11	1250
XSYS0085	CREA ENZ 200	Creatinine Enzymatic	Enzymatic	5 x 30	5 x 10	750
XSYS0022	CK 110	Creatinine Kinase	IFCC & DGKCH	2 x 44	2 x 11	500
XSYS0029	CK MB 110	Creatinine Kinase MB	Immunoinhibition	2 x 44	2 x 11	500
XSYS0011	GGT 110	Gamma-Glutamyl Transferase	SZASZ	2 x 44	2 x 11	500
XSYS0012	GLU 440	Glucose	GOD POD	10 x 44		2000
XSYS0095	GLU HK 330	Glucose HK	Hexokinase	6 x 44	6 x 11 Std 1x4	1200
XSYS0096	HbA1c	HbA1c - 2R	Latex Immunoturbidimetry	2 x 21	2 x 7	200
XSYS0054	HBA1C 1	HbA1c	Immunoturbidimetry	1 x 24	1 x 8+4	150
XSYS0043	HDL C 160	HDL Direct	Direct Method PVS & PEG	4 x 30	4 x 10	600
XSYS0049	FE 125	Iron	Ferrozine	4 x 25	4 x 6,5	440
XSYS0101	FRTN	Ferritin	Latex Immunoturbidimetry	2 x 15	2 x 7,7	200
XSYS0013	LDH 110	Lactate Dehydrogenase - P	DGKCH	2 x 44	2 x 11	500
XSYS0044	LDL C 80	LDL Direct	Direct Method PVS & PEG	2 x 30	2 x 10	300
XSYS0081	LIP 110	Lipase	Enzymatic, colorimetric	2 x 44	2 x 11	500
XSYS0040	MG 88	Magnesium	Xylidyl Blue	2 x 44		400
XSYS0083	MAL	Microalbumin	Immunoturbidimetry	2 x 30	2 x 6,3	300
XSYS0027	MP 120	Microprotein	Pyrogallol Red	10 x 12	Std 1x5	500
XSYS0015	PHOS 120	Phosphorus	UV Phosphomolybdate	10 x 12		500
XSYS0048	RF	Rheumatoid Factor	Immunoturbidimetry	2 x 40	2 x 8	400
XSYS0018	TP 440	Total Protein	Biuret	10 x 44		2000
XSYS0041	TG 440	Triglycerides	GPO	10 x 44		2000
XSYS0050	UIBC 125	UIBC	Ferrozine	4 x 25	4 x 6,5 Std 1x4	440
XSYS0020	UREA 275	Urea	Urease GLDH	5 x 44	5 x 11	1250
XSYS0021	UA 275	Uric Acid	Uricase	5 x 44	5 x 11	1000
XSYS0042	UA 440	Uric Acid	Uricase	10 x 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
Ref: 30.007/2023/1/EN