# 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



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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 (640 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

400 photometric tests/hour for a cycle time of 9 seconds

640 tests/hour with ISE (optional)

### Sample Type

Serum, plasma, blood, urine, CSF, other biological fluids

### Measurement Principle

Latex Turbidimetric Immunoassay, Colorimetry (Rate/End Point), Ion Selective Electrodes (optional)

### Assay Modes

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

Built-in barcode reader for samples and reagents

### Safety Mechanism

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

Factor, Linear (one point, point-to-point), Multipoint (Exponential, Polynomial, Cubic Spline, Logit-Log 4P, Logit-Log 5P)nm

### Quality Control

QC statistics for Serum and Urine parameters
Graphs based on Westgard QC Rules

### Water Consumption

Less than 13.5 litres/hour

### Computer Specifications

**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

### Power Source

AC 220 V + 10% or AC 110 V + 10%, 50 + 1 Hz or 60 + 1 Hz

**Power Consumption:** 1000 VA

### Ambient Temperature

15–30°C

### Relative Humidity

40–80 %

### Dimensions

1200 mm (w)
800 mm (d)
1200 mm (h)

### Weight

230 Kg

# 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 | 500 |
| XSYS0003 | AMY 110 | Alpha Amylase | CNPG3 | 5 × 22 | | 500 |
| XSYS0017 | ALT/GPT 330 | ALT/GPT | Modified IFCC | 6 × 44 | 6 × 11 | 1500 |
| XSYS0102 | Apo A | Apolipoprotein A | Latex Immunoturbidimetry | 2 × 28 | 2 × 7 | 200 |
| XSYS0103 | Apo B | Apolipoprotein B | Latex Immunoturbidimetry | 2 × 21 | 2 × 6 | 200 |
| XSYS0046 | ASO | Antistroptolysin (O) | Immunoturbidimetry | 2 × 40 | 2 × 10 | 400 |
| XSYS0016 | AST/GOT 330 | AST/GOT | Modified IFCC | 6 × 44 | 6 × 11 | 1500 |
| XSYS0028 | BIL D 330 | Bilirubin Direct | Walter & Gerard | 6 × 44 | 6 × 11 | 1200 |
| 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 | 1250 |
| XSYS0085 | CREA ENZ 200 | Creatinine Enzymatic | Enzymatic | 5 × 30 | 5 × 10 | 750 |
| XSYS0022 | CK 110 | Creatinine Kinase | IFCC & DGKCH | 2 × 44 | 2 × 11 | 500 |
| XSYS0029 | CK MB 110 | Creatinine Kinase MB | Immunoinhibition | 2 × 44 | 2 × 11 | 500 |
| XSYS0011 | GGT 110 | Gamma-Glutamyl Transferase | SZASZ | 2 × 44 | 2 × 11 | 500 |
| XSYS0012 | GLU 440 | Glucose | GOD POD | 10 × 44 | | 2000 |
| XSYS0095 | GLU HK 330 | Glucose HK | Hexokinase | 6 × 44 | 6 × 11 Std 1×4 | 1200 |
| XSYS0096 | HbA1c | HbA1c - 2R | Latex Immunoturbidimetry | 2 × 21 | 2 × 7 | 200 |
| 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 | 440 |
| XSYS0101 | FRTN | Ferritin | Latex Immunoturbidimetry | 2 × 15 | 2 × 7,7 | 200 |
| XSYS0013 | LDH 110 | Lactate Dehydrogenase - P | DGKCH | 2 × 44 | 2 × 11 | 500 |
| 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 | 500 |
| XSYS0040 | MG 88 | Magnesium | Xylidyl Blue | 2 × 44 | | 400 |
| XSYS0083 | MAL | Microalbumin | Immunoturbidimetry | 2 × 30 | 2 × 6,3 | 300 |
| 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 | | 2000 |
| XSYS0041 | TG 440 | Triglycerides | GPO | 10 × 44 | | 2000 |
| XSYS0050 | UIBC 125 | UIBC | Ferrozine | 4 × 25 | 4 × 6,5 Std 1×4 | 440 |
| XSYS0020 | UREA 275 | Urea | Urease GLDH | 5 × 44 | 5 × 11 | 1250 |
| XSYS0021 | UA 275 | Uric Acid | Uricase | 5 × 44 | 5 × 11 | 1000 |
| 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.

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CE 2797

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