TECHNICAL SPECIFICATIONS

SYSTEM TYPE
Automatic clinical chemistry analyser – random access system, STAT samples processing

THROUGHPUT
400 photometric tests/hour
640 tests/hour with ISE

ON-BOARD PARAMETERS
Up to 45 photometric tests + 4 ISE

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

NO. OF PROGRAMMABLE PARAMETERS
96 photometric tests, 40 calculated tests and 4 ISE parameters

ASSAY METHODS
End-point, kinetics, ISE (direct potentiometry)

CALIBRATION TYPE
Linear (one point, multi point), exponential, polynomial, factor, cubic spline, Logit-Log 4P, Logit-Log 5P

OPTICAL SYSTEM
Halogen lamp, 12 wavelenghts: 340, 376, 415, 450, 480, 505, 546, 570, 600, 660, 700 and 750 nm (diffraction grating)

REAGENT TRAY
56 refrigerated positions (8-12°C)
5, 20, 50 ml reagent containers

SAMPLE TRAY
80 positions:
Outer ring – 50 position for samples
Inner ring – 30 positions for blanks, standards, calibrators, controls and ISE solutions

REAGENT DISPENSING
2 independent dispensing probes with liquid-level sensor
Dispensed volumes:
R1 50 – 300 μl with 1 μl step
R2 10 – 300 μl with 1 μl step

MINIMAL REACTION VOLUME
180 μl

REACTION TRAY
72 reusable hard glass cuvettes, optical path length 5 mm

MIXING SYSTEM
2 independent stirrers, 3 mixing speeds

QC
Levey-Jennigs charts, Westgard rules

BARCODE READER
Built-in barcode reader

WATER CONSUMPTION
Maximum 13 litres/hour

PC REQUIREMENTS
Operating system:
Up to Win 10, Pentium 4, RAM 512 MB, HDD 200 GB, resolution 1024 x 768

POWER SUPPLY
220 V ± 10 %, 50 Hz ± 5%, 600 VA

DIMENSIONS
910 mm (w) x 780 mm (d) x 1 160 mm (h)

BACKUP
Complete or selected data

CLINICAL CHEMISTRY ANALYSER.
AFFORDABLE.
RELIABLE.
EFFECTIVE.

TOTAL SOLUTIONS FOR CLINICAL DIAGNOSTICS

Version No 1.1

XL640
FULLY AUTOMATIC CLINICAL CHEMISTRY ANALYSER

XL640

Reliable automation of analysis

DISPENSING OF SAMPLES AND REAGENTS

- Sample volume: 2–70µl (0.2 µl step)
- Reagent volume: R1 50–300 ul (1 µl step)
  R2 10–300 ul (1 µl step)
- 3 dispensing probes (sample, R1, R2) equipped with liquid –level sensor and crash detector
- Auto-dilution of samples and calibrators
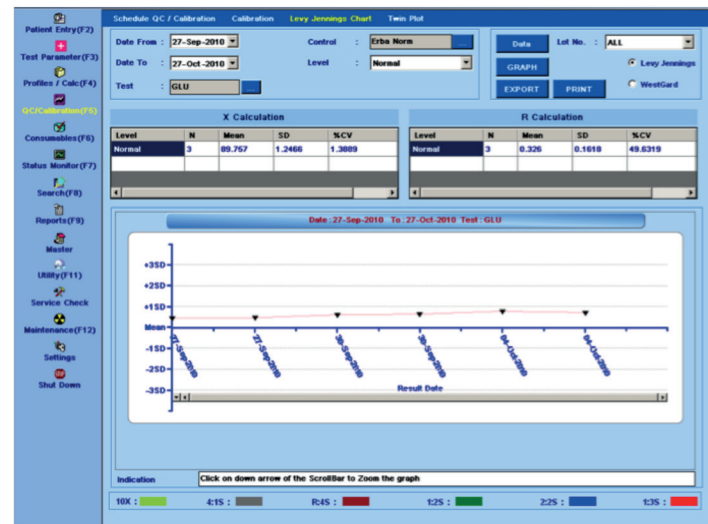- Clot detection

ECONOMY

- Minimum reaction volume: 180 µl
- Reusable reaction glass cuvettes

MIXING SYSTEM

- 2 independent stirrers
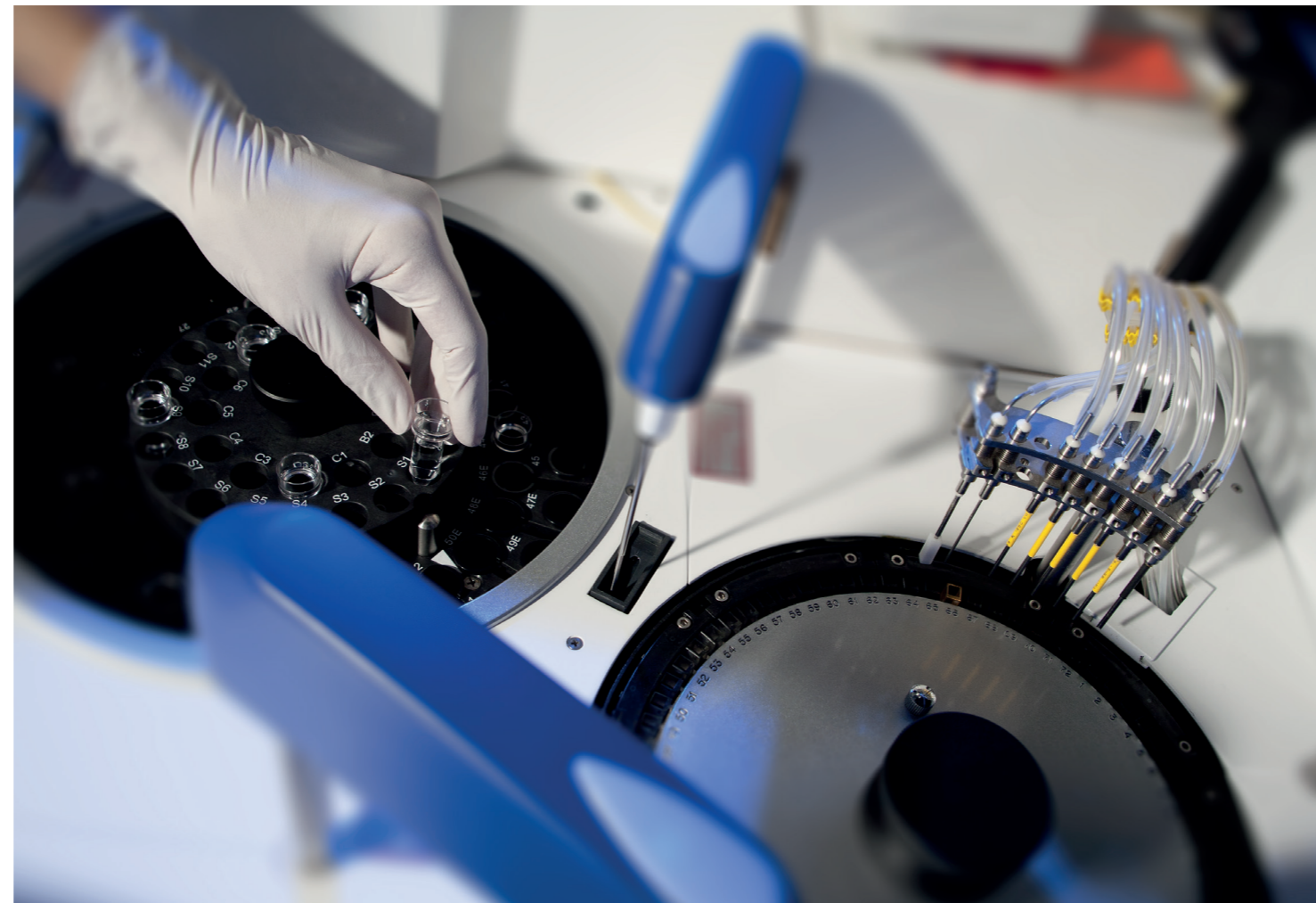- 3 user selectable mixing speeds

QUALITY CONTROL

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

REACTION UNIT WITH WASH STATION

- 72 reusable hard glass cuvettes
- Possibility of replacement of individual cuvette
- Wash station – cuvette rinsing and drying in eight–step procedure
- Automatic cuvette blank measurement before analysis

SAMPLE TRAY

- 80 positions for samples, blanks, standards, calibrators, controls and ISE solutions
- Primary tubes 5, 7 and 10 ml, vacuum system tubes and cups
- STAT sample with priority in any position
- Additional tray for 80 samples included

REAGENT TRAY

- 56 positions, 20 ml, 50 ml reagent containers, 5 ml tube with adaptor
- Reagent compartment with Peltier/air cooler (8–12°C)
- Option to use one reagent for several test simultaneously

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