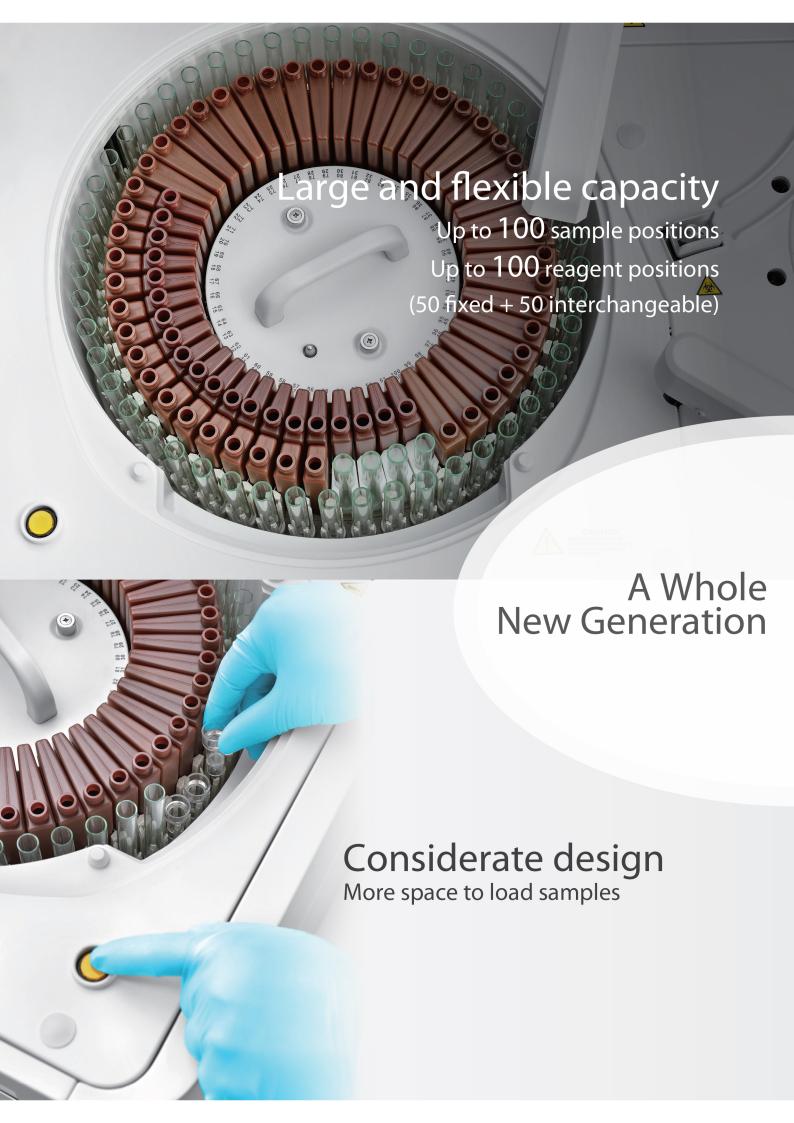


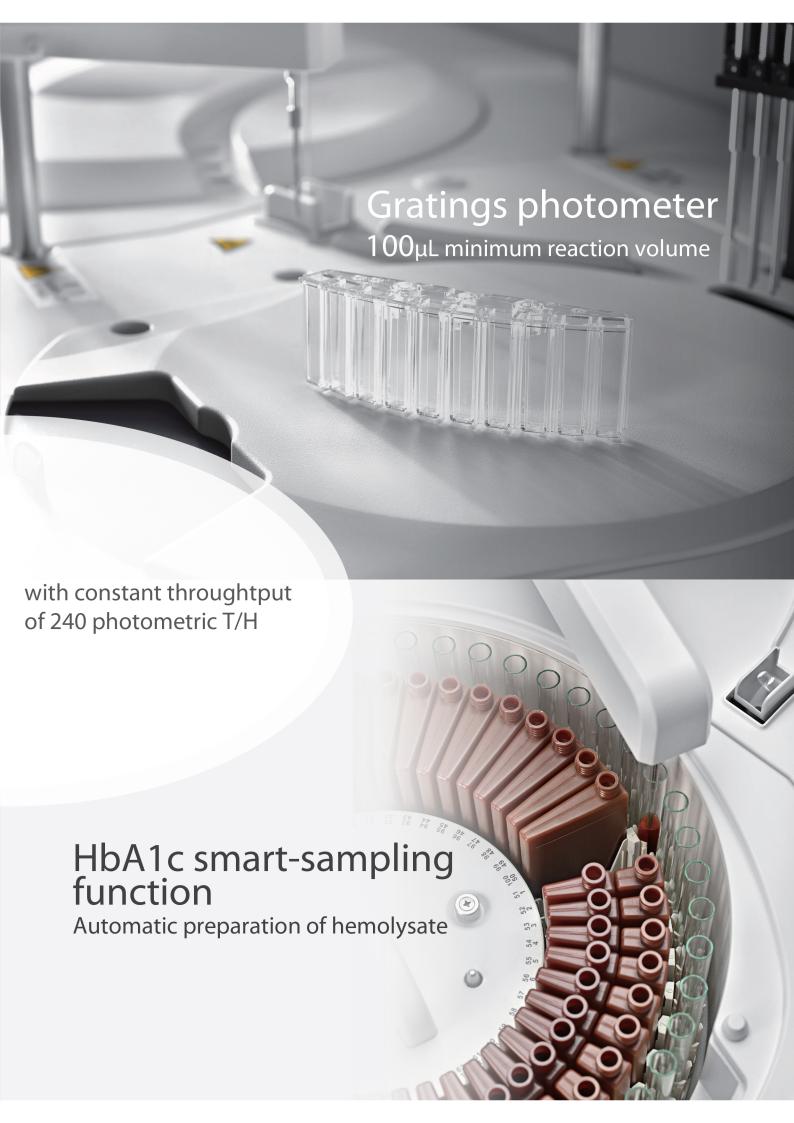
# BS-240Pro

Chemistry Analyzer

# Compact yet Robust







# BS-240Pro

# Chemistry Analyzer



Waterfall probe cleaning



Intelligent probe with optional clog detection



Constant throughput



Independent mixing bar





Optimized washing station





Built-in barcode reader



Optional ISE module easy to access

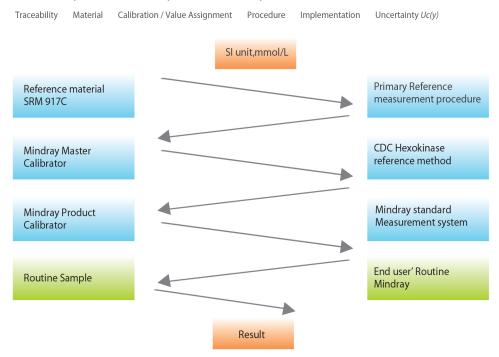


Intuitive software with more functionalities

### **Complete traceability process**

Complete calibration hierarchy and traceability chain are based on ISO standard (EN/ISO17511) from reference system to routine measurement system.



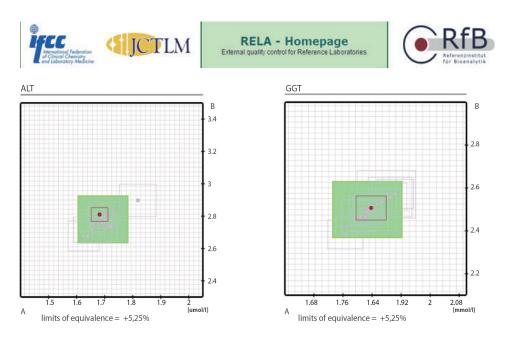


## **External quality assurance for reference measurement**

Mindray participates in RELA (External quality control for reference laboratory).

# **EQA for Mindray Reference laboratory——RELA**

Mindray reference laboratory has passed RELA for 6 consecutive years.



More RELA results please refer to: www.dgkl-rfb.de/81

### Reagent menu

#### **Hepatic Panel**

Alanine Aminotransferase (ALT)

Aspartate Aminotransferase (AST)

Alkaline Phosphatase (ALP)

γ-GlutamylTransferase (γ-GT)

Direct Bilirubin (D-Bil) DSA Method

Direct Bilirubin (D-Bil)VOX Method

Total Bilirubin (T-Bil) DSA Method

Total Bilirubin (T-Bil)VOX Method

Total Protein (TP)

Albumin (ALB)

Total Bile Acids (TBA)

Prealbumin (PA)

Cholinesterase (CHE)

α-L-fucosidase (AFU)

5'-nucleotidase (5'-NT)

#### **Renal Panel**

Urea (UREA)

Creatinine (CREA) Modified Jaffé Method

Creatinine (CREA)Sarcosine Oxidase Method

Uric Acid (UA)

Carbon dioxide (CO2)

Microalbumin(MALB)

β2-Microglobulin (β2-MG)

Cystatin C (CysC)

Retinol binding protein(RBP)

#### **Immune Panel**

Immunoglobulin A (IgA)

Immunoglobulin G (IgG)

Immunoglobulin M (IgM)

Complement C3 (C3)

Complement C4 (C4)

#### Diabetes Panel

Glucose (Glu) GOD-POD Method

Glucose (Glu) HK Method

Hemoglobin A1c (HbA1c)

Fructosamine (FUN)

β-Hydroxybutyrate(β-HB)

#### **Cardiac panel**

Creatine Kinase (CK)

Creatine Kinase-MB (CK-MB)

Lactate Dehydrogenase (LDH)

 $\alpha$ -Hydroxybutyrate Dehydrogenase( $\alpha$ -HBDH)

High sensitive C-reaction protein (HS-CRP)

#### **Inorganic & Anemia**

Iron (Fe)

Ferritin (FER)

Transferrin (TRF)

Calcium (Ca)

Magnesium (Mg)

Phosphate Inorganic (P)

Unsaturated iron binding capacity (UIBC)

Glucose-6-phosphate dehydrogenase (G6PD)

#### **Lipid Panel**

Total Cholesterol (TC)

Triglycerides (TG)

HDL-Cholesterol (HDL-C)

LDL-Cholesterol (LDL-C)

Apolipoprotein A1 (ApoA1)

Apolipoprotein B (ApoB)

Lipoprotein(a) [Lp(a)]

#### **Rheumatism Panel**

C-reactive protein (CRP)

Rheumatoid Factor (RF)

Antibodies Against Streptolysin O (ASO)

#### **Lung Panel**

Adenosine Deaminase (ADA)

Angiotensin Converting Enzyme(ACE)

#### **Pancreatitis Panel**

α-Amylase (α-AMY)

Lipase (LIP)

# BS-240Pro

## **Chemistry Analyzer**

#### **Technical Specifications**

System function

Automatic, Discrete, Random Access, Bench-top

STAT sample priority

Throughput: Constant 240 photometric tests per

hour, up to 400 T/H with ISE

Measuring principles: Absorbance photometry,

turbidimetry, ion selective electrode

technology

Methodology: End-point, Fixed-time, Kinetic,

optional ISE,

Single/Double reagent chemistries,

Mono-chromatic / bi-chromatic

Original system pack reagent ready to use Close system and open system is optional

Reagent/Sample Handling

Reagent/Sample tray: 50 to 100 positions for reagents and 50

to 100 positions for samples in 24-hour

refrigerated compartment (2~12°C)

Reagent volume: R1: 100~200μL, step by 0.5μL

R2: 10~200μL, step by 0.5μL

Sample volumne: 2~35μL, step by 0.1μL

Reagent/Sample probe: Liquid level detection, horizontal and

vertical collision protection, inventory

checking, reagent pre-warming,

optional clog detection

Probe cleaning: Automatic washing for interior and

exterior

Carry over < 0.05%

Automatic sample dilution: Pre-dilution and post-dilution

Mixing Unit: Independent mixing bar

**Built-in Bar Code Reader (Optional)** 

Used for sample and reagent programming

Be applicable to various bar code systems of Codabar, ITF

(Interleaved Two of Five), code128, code39, UPC/EAN, Code93 Capable to communicate with LIS in bi-directional mode

**Reaction System** 

Reaction tray: 80 reusable cuvettes

Reaction volume: 100~360uL Reaction temperature:  $37^{\circ}C \pm 0.1^{\circ}C$ 

**Cuvette Washing:** Washing station with pre-warmed

detergent and de-ionized water

ISE Module (optional)

Measuring K+, Na+, Cl-

**Optical System** 

Light Source: Halogen-tungsten lamp

Wavelength: 12 wavelengths, 340nm, 380nm, 412nm,

450nm, 505nm, 546nm, 570nm, 605nm,

660nm, 700nm, 740nm, 800nm

Absorption range: 0~3.5Abs, resolution 0.0001Abs

Stray Light: 4.9Abs

**Control and Calibration** 

Calibration modes: K factor, Linear (two points and

> multi-points), Logit-Log 4P, Logit-Log 5P, Spline, Exponential, Polynomial, Parabola,

Logit-Log3P, Broken line

One key calibrator import function

Control Rules: Westgard multi-rule, Levey-Jennings,

Cumulative sum check, Twin plot

**Operation Unit** 

Operation system: Windows 10

RS-232 Interface:

**Working Conditions** 

Power Supply: 200~240V, 50/60Hz, ≤1300VA or

100~130V, 60Hz, ≤1300VA

Dimension: 860 mm (length)  $\times$  660 mm (depth)  $\times$ 

550 mm (height)

Weight: 115 kg Water Consumption: ≤6.5 L/H

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