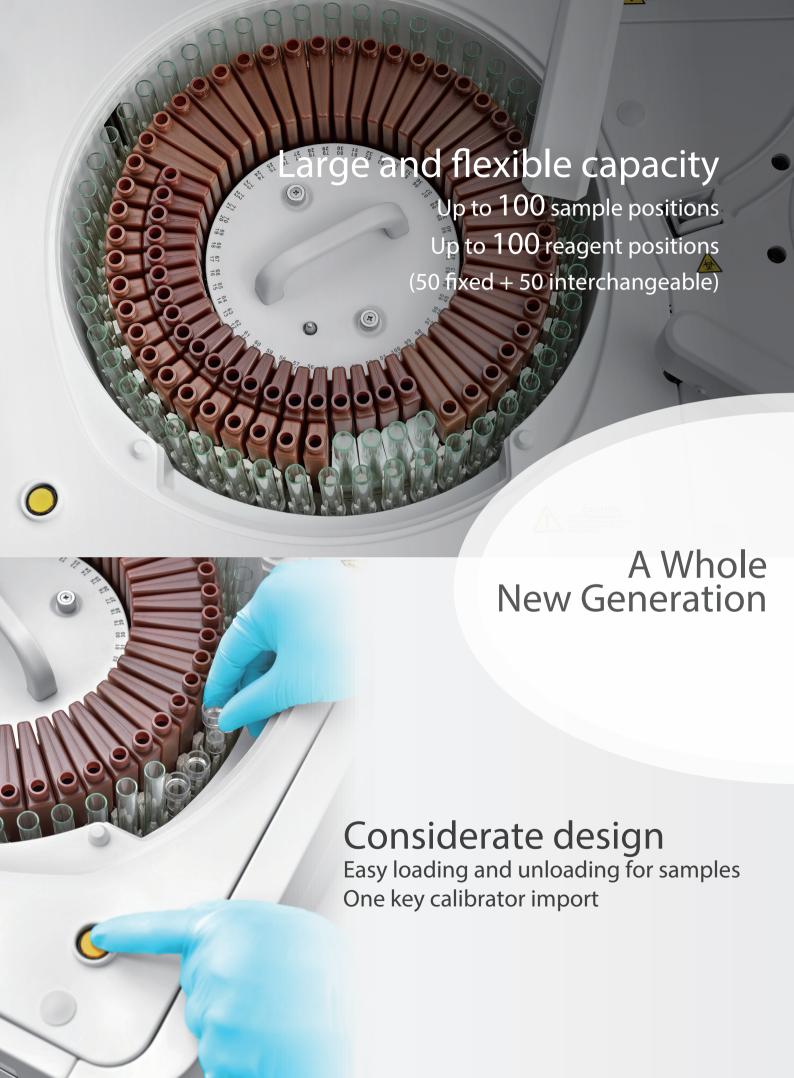
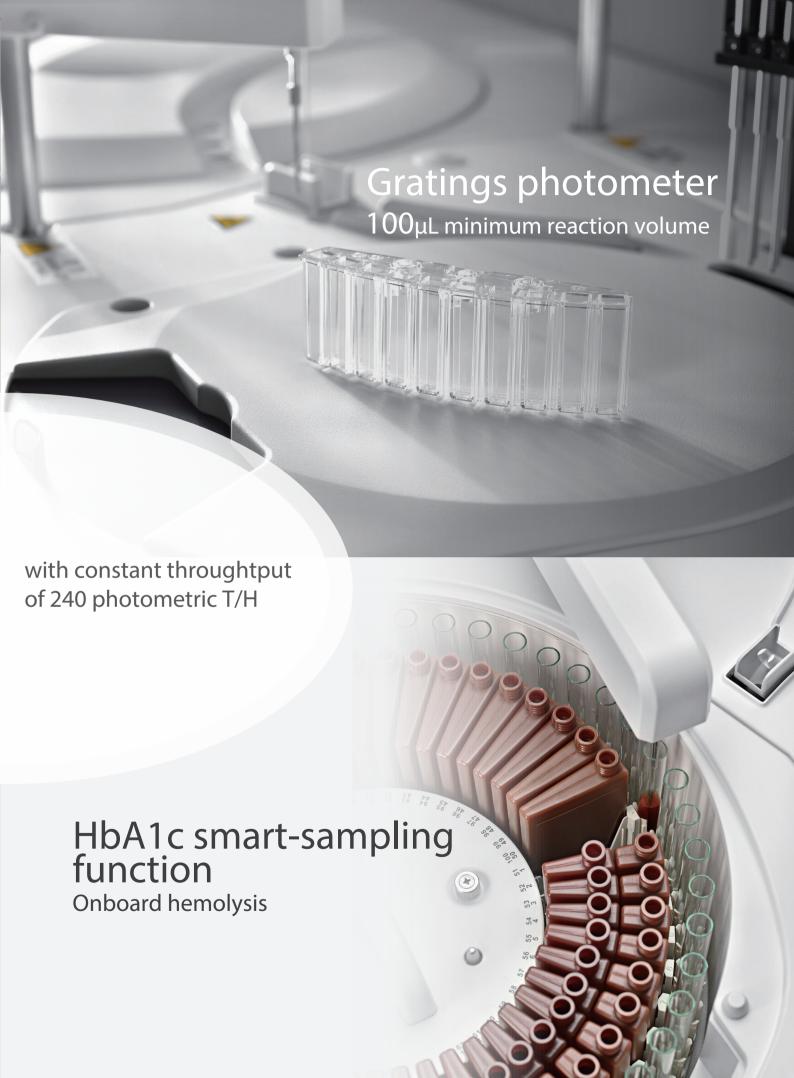


# **BS-240Pro**Chemistry Analyzer

# Compact yet Robust







# **BS-240Pro**Chemistry Analyzer



Waterfall probe cleaning



Intelligent probe with optional clog detection



Constant throughput



Independent mixing bar





Optimized washing station

BS-240Pro



Built-in barcode reader



Optional ISE module easy to access

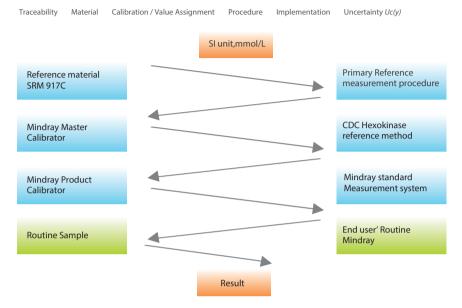


Intuitive software with more functionalities

# **Complete traceability process**

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

## Traceability chain of Mindray measurement system (Glu)

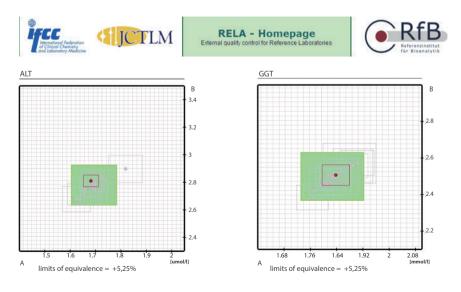


# **External quality assurance for reference measurement**

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-Glutamyl Transferase (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)

# **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)

Total Protein in Urine/CSF (TPUC)

# 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)

α-Hydroxybutyrate Dehydrogenase (α-HBDH)

Full Range C-Reaction Protein (FR-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**

 $\alpha$ -Amylase ( $\alpha$ -AMY)

Lipase (LIP)

#### **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:  $2\sim35\mu$ L, step by  $0.1\mu$ L

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** 

80 reusable cuvettes Reaction trav:

Reaction volume: 100~360uL

Reaction temperature:  $37^{\circ}C \pm 0.1^{\circ}C$  by air bath

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

detergent and de-ionized water

ISE Module (optional)

Direct method, 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

0~3.5Abs, resolution 0.0001Abs Absorption range:

Stray Light: 4 9Ahs

**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

Interface: RS-232

**Working Conditions** 

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

100~130V, 60Hz, ≤1300VA

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

550 mm (height)

Weight: 115 kg

Water Consumption: ≤6.5 L/H

www.mindray.com

P/N:ENG-BS-240Pro-210285X8P-20171017

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