

BS-240E

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 volume: 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: 100~360µL

Reaction temperature: 37 °C ± 0.1 °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

Control Rules: One key calibrator import function
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

Dimension: 860 mm (length) × 660 mm (depth) × 550 mm (height)

Weight: 115 kg

Water Consumption: ≤6.5 L/H



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Chemistry Analyzer

Compact yet Robust



Mindray is listed on the NYSE under the symbol "MR"
Mindray Building, Keji 12th Road South, High-tech Industrial Park,
Nanshan, Shenzhen 518057, P.R. China
Tel: +86 755 26582888 Fax: +86 755 26582680
E-mail: intl-market@mindray.com Website: www.mindray.com

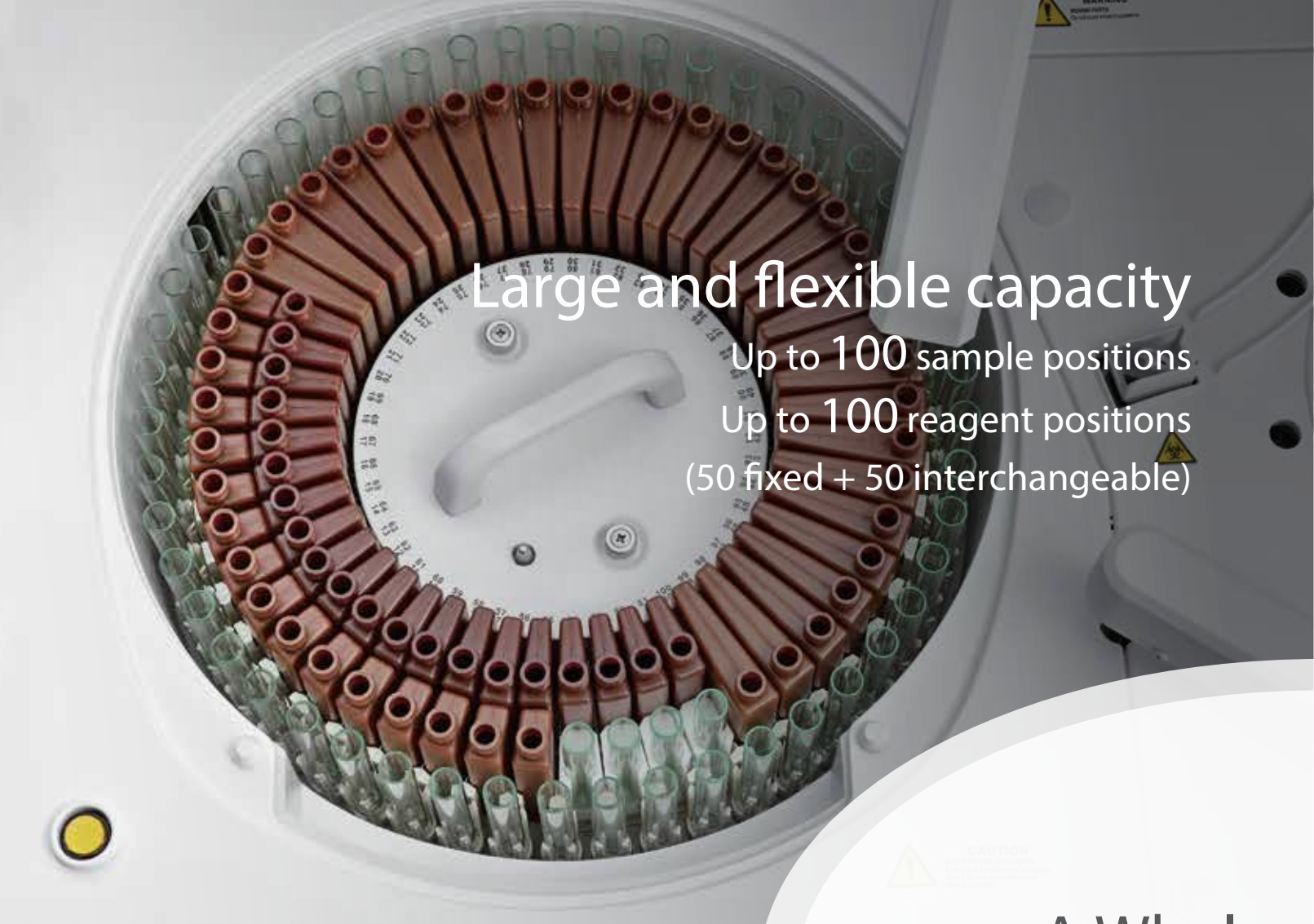
수입판매원 :



(주)메타메디

대전광역시 서구 계백로860번길 8, 2층(관저동 1967-1)
T : 041.751.3826 F : 041.754.3827
Website : www.metamedi.net

mindray
healthcare within reach



Large and flexible capacity

Up to 100 sample positions
Up to 100 reagent positions
(50 fixed + 50 interchangeable)



Gratings photometer

100µL minimum reaction volume

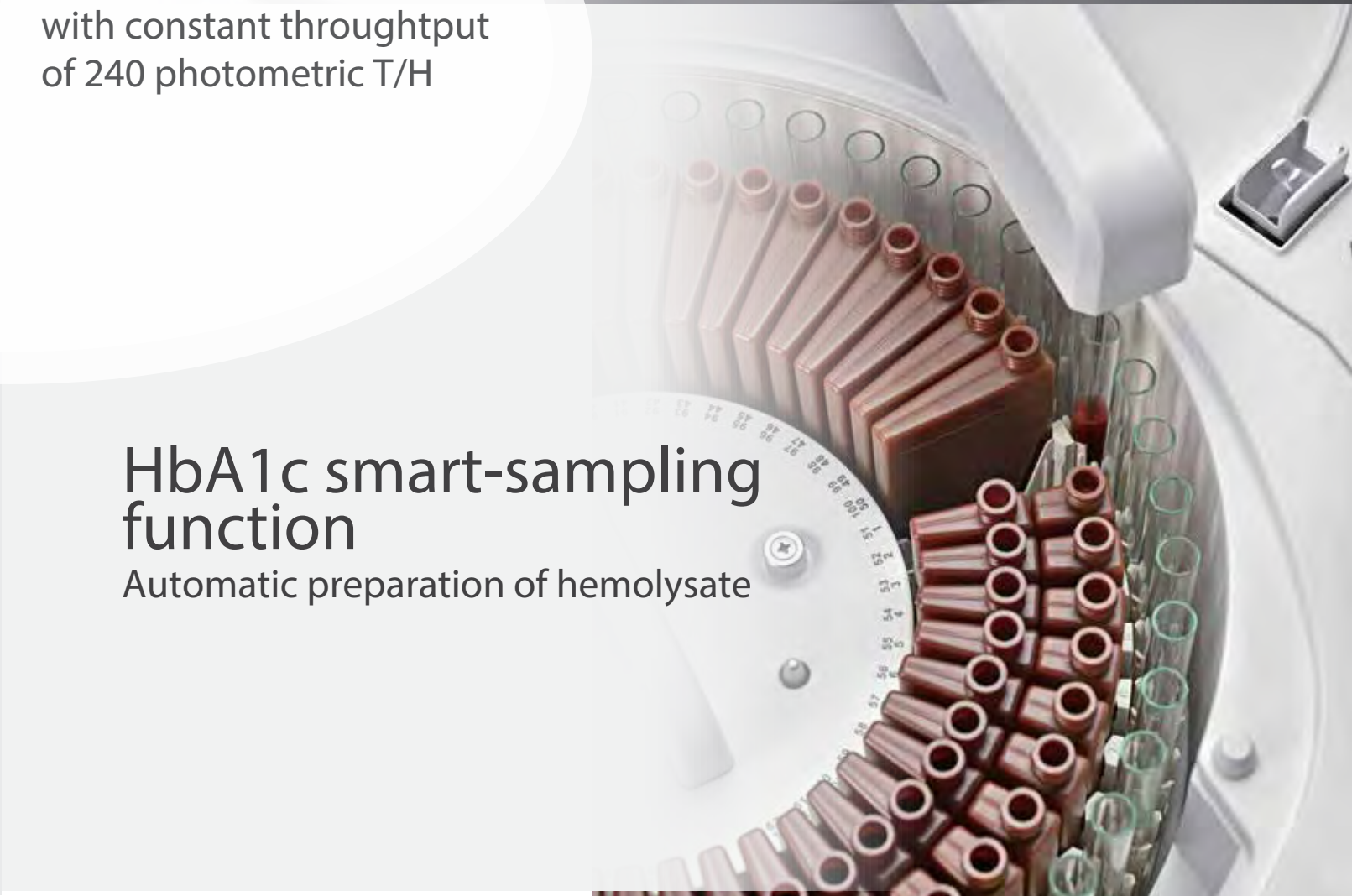


A Whole New Generation

with constant throughput
of 240 photometric T/H

Considerate design

More space to load samples



HbA1c smart-sampling function

Automatic preparation of hemolysate

BS-240E
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



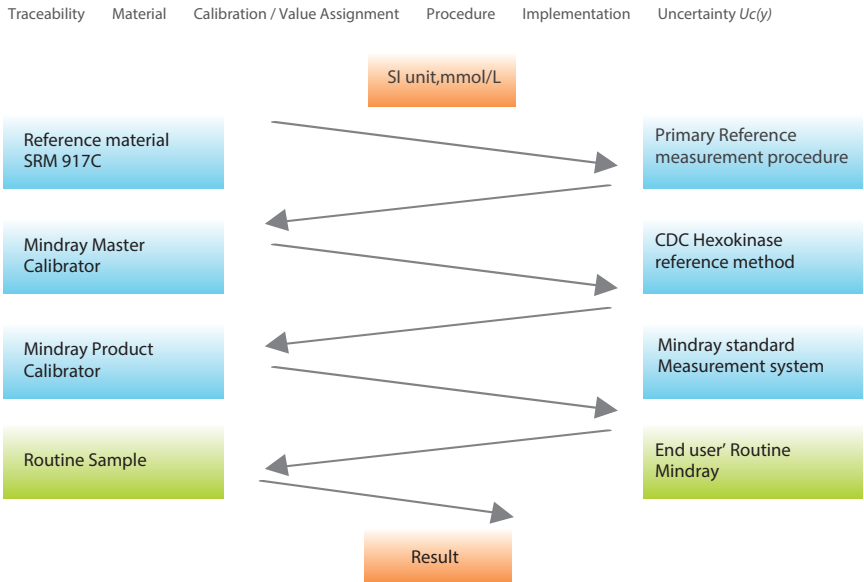
Intuitive software with more functionalities



Complete traceability process

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

Traceability chain of Mindray measurement system (Glu)

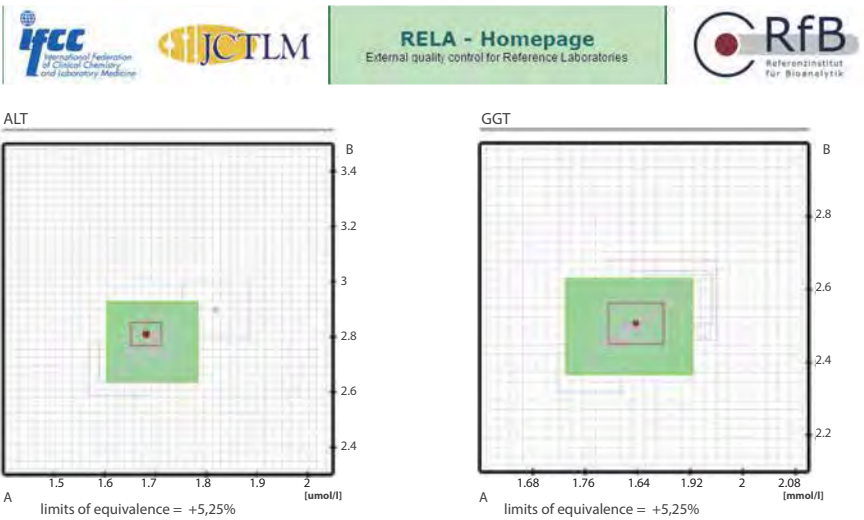


External quality assurance for reference measurement

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

RELA

All the items Mindray participate RELA

ALT AMY ALP CK GGT GLU LDH TB TP UA UREA

Reagent menu

Hepatic Panel	Cardiac 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)	Creatine Kinase (CK) Creatine Kinase-MB (CK-MB) Lactate Dehydrogenase (LDH) α-Hydroxybutyrate Dehydrogenase(α-HBDH) High sensitive C-reaction protein(HS-CRP)
Renal Panel	Inorganic & Anemia
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)	Iron (Fe) Ferritin (FER) Transferrin (TRF) Calcium (Ca) Magnesium (Mg) Phosphate Inorganic (P) Unsaturated iron binding capacity (UIBC) Glucose-6-phosphate dehydrogenase (G6PD)
Immune Panel	Lipid Panel
Immunoglobulin A (IgA) Immunoglobulin G (IgG) Immunoglobulin M (IgM) Complement C3 (C3) Complement C4 (C4)	Total Cholesterol (TC) Triglycerides (TG) HDL-Cholesterol (HDL-C) LDL-Cholesterol (LDL-C) Apolipoprotein A1 (ApoA1) Apolipoprotein B (ApoB) Lipoprotein(a) [Lp(a)]
Diabetes Panel	Rheumatism Panel
Glucose (Glu) GOD-POD Method Glucose (Glu) HK Method Hemoglobin A1c (HbA1c) Fructosamine (FUN) β-Hydroxybutyrate(β-HB)	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)