

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 volume:

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

to 100 positions for samples in 24-hour

refrigerated compartment (2~12 $^{\circ}$ C) R1: 100~200 μ L, step by 0.5 μ L

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: 100~360μL

Reaction temperature: 37 $^{\circ}\text{C}$ \pm 0.1 $^{\circ}\text{C}$ 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

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 Interface: RS-232

Working Conditions

Dimension:

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

100~130V, 60Hz, ≤1300VA

860 mm (length) \times 660 mm (depth) \times

550 mm (height)

Weight: 115 kg

Water Consumption: ≤6.5 L/H

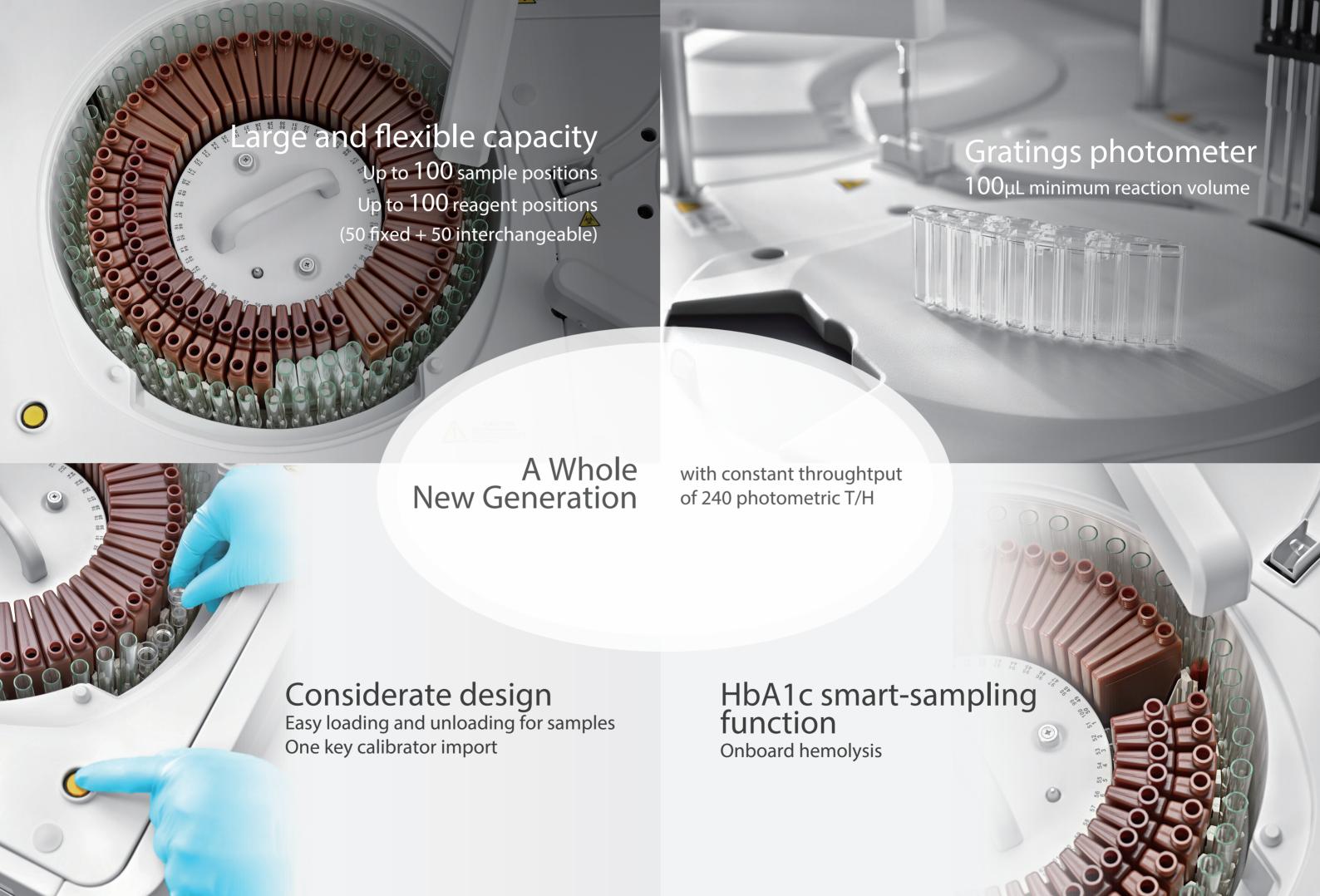


BS-240E

Chemistry Analyzer

Compact yet Robust





BS-240EChemistry 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

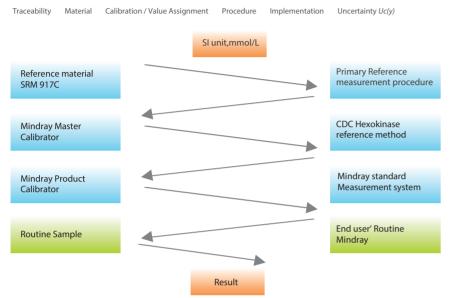
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C REPLY	CysC	CO2	CK-MB	CK	о-НВОН	HS-CRP	ASO	RF	>
Nam	HDL-P	S Prot-N	S Prot-P						
(I)	Demog F1	Options F2	Batch F3			List F5	Prev F6	Next F7	Save F8

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)



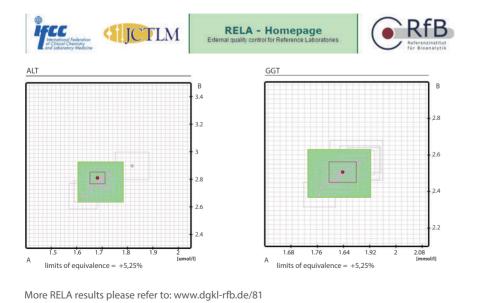
External quality assurance for reference measurement

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.

ALT AMY ALP CK GGT GLU LDH TB TP UA UREA



Reagent menu

Hepatic Panel

Alanine Aminotransferase (ALT)

Aspartate Aminotransferase (AST)

Alkaline Phosphatase (ALP)

y-Glutamyl Transferase (y-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

α-Amylase (α-AMY)

Lipase (LIP)