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 volume:

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

to 100 positions for samples in 24-hour

refrigerated compartment (2~12°C)

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, vertical collision

protection, inventory checking,

reagent pre-warming, optional clog

detection

Probe cleaning: Automatic washing for interior and

exterior

Carry over < 0.05%

 $\label{lem:condition} \mbox{Automatic sample dilution: Pre-dilution and post-dilution}$

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: $100\sim360\mu L$ 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+, CI-

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

Stray Light: 4.9A

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

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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P/N:ENG-BS-240Pro-210285X8P-20170515

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BS-240Pro

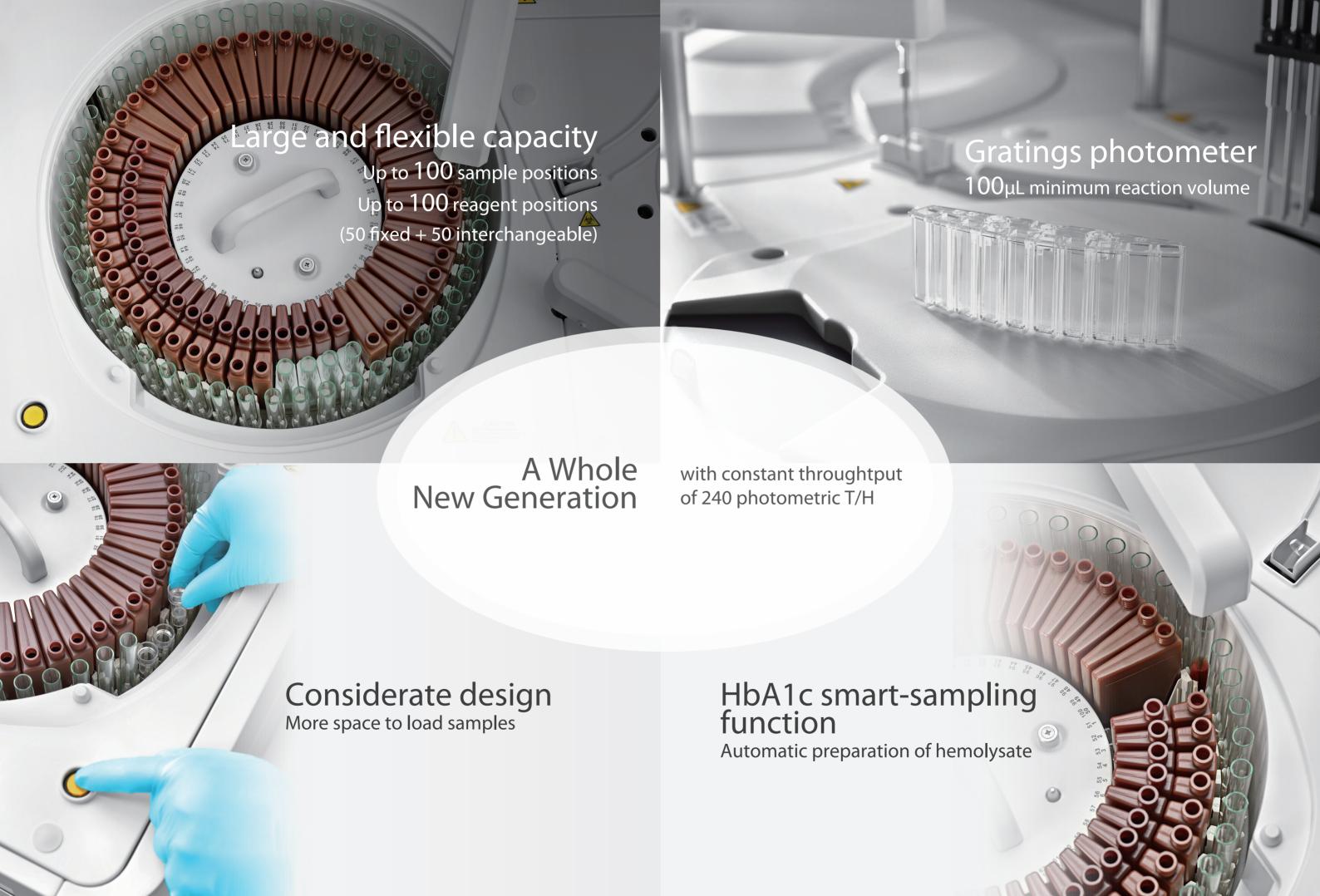
Chemistry Analyzer

Compact yet Robust





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BS-240ProChemistry Analyzer



Waterfall probe cleaning



Intelligent probe with optional clog detection



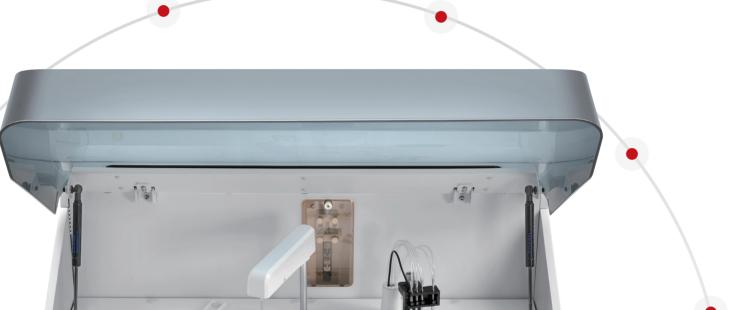
Constant throughput



Independent mixing bar



Optimized washing station



mindray BS-240Pro



Built-in barcode reader



Optional ISE module easy to access

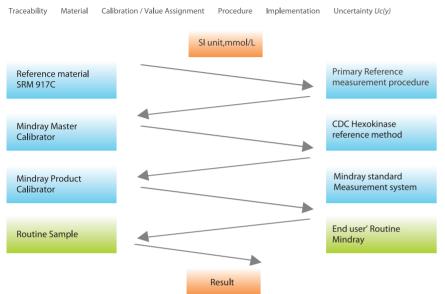
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Program	ID 0	Ce	d 1	Pos 1	STAT	Sample Type	Serum 🗸	Status	
	Bar Code			C	Comment		~	Patient ID	
Result	SI	Ca	Р	T-BB-V	ALT	γ-GT	TP	TG	UREA
Reagent	LDH	Mg	GSPD	GluH	Glu-G	D-84-V	0-68-0	T-bill D	ADA
	PA	TBA	AST	ALP	Lp(a)	CHE	ALB	LIP	o-AMY
oc oc	ApoA1	ApoB	MALB	LDL-C	HDL-C	тс	CREA-S	CREA-J	UA
(iii)	CysC	CO2	CK-MB	СК	о-НВОН	HS-CRP	ASO	RF	>
Alarm	HDL-P	S Prot-N	S Prot-P						
(i) Exit	Demog F1	Options #2	Batch F3	G		Jist 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)

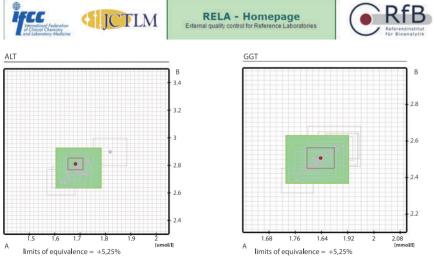


External quality assurance for reference measurement

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.



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)

 α -Hydroxybutyrate Dehydrogenase(α -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)

 $Angiotens in \ Converting \ Enzyme (ACE)$

Pancreatitis Panel

 α -Amylase (α -AMY)

Lipase (LIP)