BS-360E Chemistry Analyzer

Technical Specifications

System function

Automatic, Discrete, Random Access, Bench-top STAT sample priority

Throughput:	Up to 360 photometric tests per hour,				
	up to 540 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 reager	nt 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 ($2\sim12^{\circ}$)			
	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, 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,				
		Logit-Log3P, Broken line				
1		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) × 660 mm (depth) × 550 mm (height) Weight: 115 kg Water Consumption: ≤6.5 L/H

BS-360E Chemistry Analyzer

Compact yet Robust

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mindray





Large and flexible capacity

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

A Whole New Generation

with throughput up to 360 photometric T/H

Considerate design

More space to load samples

HbA1c smart-sampling function

Automatic preparation of hemolysate

Gratings photometer 100µL minimum reaction volume



BS-360E Chemistry Analyzer



Waterfall probe cleaning



Intelligent probe with optional clog detection



Throughput of up to 360T/H



Independent mixing bar



Optimized washing station





Built-in barcode reader



Optional ISE module easy to access

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HOST	5 4	Admin		01/14 09:447	w 🔽				
	Lt Sample			Ouality Control Status					
Program	10	Cr	1	Pos 1	STAT	Sample Type	Serum 🗸	Status	
	Bar Code			0	omment		~	Patient ID	
Result		Ca	P	T-88-V	ALT	γ·GT	TP	TG	UREA
Reagent	LDH	Ng	G6PD	Glu-H	Gluig	D-84-V	0-68-0	T-68-D	ADA
	PA	TBA	AST	ALP	Lp(a)	CHE	ALB	LIP	e-AMY
<u> </u>	ApoA1	ApoB	MALB	LDL-C	HDL-C	тс	CREA-S	CREA-J	UA
	CysC	CO2	CK-MB	СК	e-HEDH	HS-CRP	ASO	RF	>
Utacy	HTL D	C Dans N	C Deut D	_		_	_		
Alarm	1007	UPROM							
				_					
Exit:	U Demog Options Eatch Clear List Prev Next Save F3 F4 F5 F6 F7 F8							Save F8	
Enter sample ID(1-10 digts)									

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)

Traceability Material Calibration / Value Assignment Procedure Implementation Uncertainty Uc(y)



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 Bilirubin (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) Angiotensin Converting Enzyme(ACE)

Pancreatitis Panel

α-Amylase (α-AMY) Lipase (LIP)