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 reagent ready to use | | | | | |
| Close system and open sys | tem is optional | | | | |
| | | | | | |

Reagent/Sample Handling

| Descent/Compale trave | 50 to 100 model time for more months and 50 |
|----------------------------|---|
| Reagent/Sample tray: | 50 to 100 positions for reagents and 50 |
| | to 100 positions for samples in 24-hour |
| | refrigerated compartment ($2\sim12^{\circ}$ C) |
| 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 100~360µL Reaction volume: 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+, 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: 4.9Abs

Control and Calibration

| n | 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) \times 660 mm (depth) \times | | |
| | 550 mm (height) | | |
| Weight: | 115 kg | | |
| Water Consumption: | ≤6.5 L/H | | |



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BS-360E Chemistry Analyzer

Compact yet Robust







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

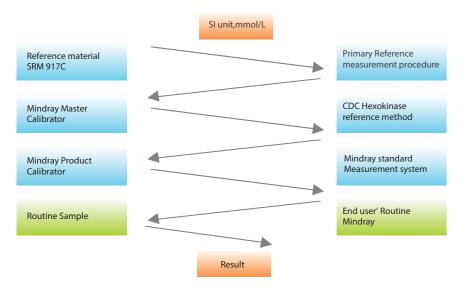


Complete traceability process

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)

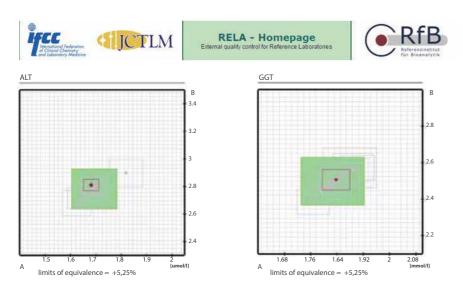


External quality assurance for reference measurement

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)

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

| | - | | | - | - | Seguitar | 1 N N | | |
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Intuitive software with more functionalities