



Internal bar code reader (optional)

**Bi-directional LIS interface** 



**Multi-functional sample probe** 

Interior and exterior probe washing

Probe depth adjusted automatically

Sample volume as low as 2.0µL

High performance mixer design Optimized homogenization in minimum

High precision mixer station to ensure

excellent reaction conditions

Standardized mixing procedures

**Refrigerated reagent tray** 

element

80 reagent positions for R1, R2, R3, R4

24 hour non-stop cooling with Peltier

Ready-to-use liquid stable reagents

Internal reagent bar code reader (optional)

Liquid level detection

Collision protection

Clot detection



Serum indices detection function

Multi-point calibration: up to 10 points

automatically

requesting again

detailed causation records

• Intelligence of extending the linearity range for enzyme tests

Auto rerun: in repeating/increasing /decreasing mode

Power-off memory protection: in case of emergency shutdown,

the system quickly stores all the current information. When

powered on again, it will carry over unfinished tests without

Reaction trend graph of patient's history records

Comprehensive indications for out-of-control results and

Automatic alarm during running process with explanations displayed

Optimum test sequence setting program to avoid carry-over

Condtions
Date
2007- 2-13

## • High tech washing station to guarantee

## accurate results and ensure valid diagnostics 8-step auto-washing

**Washing station** 

**Reaction tray** 

**High quality ISE Module** 

Na<sup>+</sup>, Cl⁻, Li<sup>+</sup>

6 months shelf life

hour

• Optional selection of K<sup>+</sup>, Na<sup>+</sup>, Cl<sup>-</sup> or K<sup>+</sup>,

Throughput: up to 240 or 320 tests per

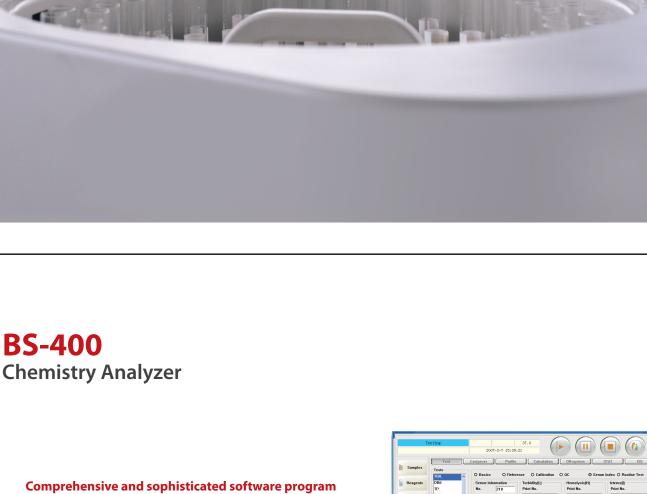
carry-over

Test sequence optimization to reduce

Total reaction volume as low as 150µL

Contains 90 reaction cuvettes

Maintenance free heating system



## Dynamic and real-time display of running status Running status of reagent tray, sample tray and reaction tray

Real-time monitoring of reagent residual volume

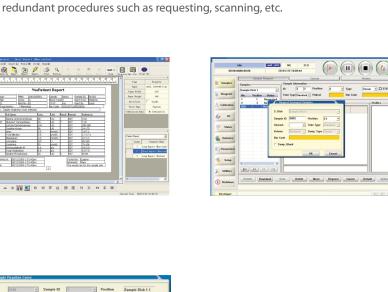
Real-time diagnosis of system working status

Flexible to define various report templates for laboratory, and easy to import new template from Mindray or other users. Fast Emergency Detection One-key STAT function makes it easy to perform an emergency test for operator. Blood Bank Proprietary Model

Flexible and Convenient software function

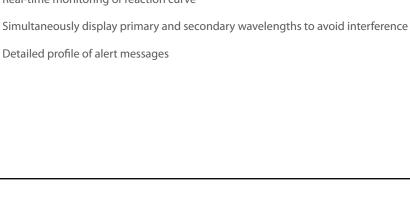
Template Modifying Software

- Real-time monitoring of reaction curve Detailed profile of alert messages



Original reaction data record

It is a special function which can perform an automatic test routine with default configuration for blood bank without some



**BS-400 Chemistry Analyzer Technical Specifications** System function: Throughput: Measuring principles:

Methodology:

Programming:

Sample tray:

Sample Handling:

Sample volume:

Sample probe:

Probe cleaning:

Reagent tray:

**DISTRIBUTOR:** 

Liquid level detection, collision protection and Reagent probe: Fully automated, discrete, random access for routine, inventory checking Automatic washing both interior and exterior STAT, urine and homogeneous immuno assays; Probe cleaning: STAT sample priority 400 tests/hour, up to 640 tests/hour with ISE Reaction System: Absorbance photometry, turbidimetry Rotating tray, 90 cuvettes with automatic washing Reaction rotor: End-point, Fixed-time, Kinetic, optional ISE Cuvette: Optical length 5mm Single/Dual/Triple/Quadruple reagent chemistries, Reaction volume:  $150\sim360\mu l$ monochromatic / bichromatic Operating temperature: 37°C User defined profiles and calculation Temperature fluctuation: ±0.1°C

carry-over  $\leq 0.1\%$ Automatic sample dilution: Pre-dilution and post-dilution dilution with ratio up to 1:150 Dilution vessel: Cuvette Internal bar code reader (optional): Used for sample and reagent programming; applicable to various bar code systems including Codabar  $\+$  ITF (Interleaved Two of Five)、code128、code39、UPC/  $\mathsf{EAN}_{\, \smallsetminus}\,$  Code93; capable to communicate with LIS in a bi-directional mode ISE Module (optional): Optional selection of K+, Na+, Cl-, or K+, Na+, Cl-, Li+  $\,$ Throughput:

90 positions for primary or secondary tubes and sample

Liquid level detection, clot detection and collision

Automatic washing both interior and exterior,

 $2\sim45~\mu l$ , step by 0.1  $\mu l$ 

protection

Up to 320 tests per hour Reagent Handling: 80 positions in refrigerated compartment (4~10°C) R1:  $150\sim350\mu l$ , step by  $1\mu l$ ; R2/R3/R4: 20~350μl, step by 1μl; 2 independent reagent probes

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Optical System: Halogen-tungsten lamp Light Source: Photometer: Reversed optics, grating photometry Wavelength: 340nm、380nm、412nm、450nm、505nm、 546nm、570nm、605nm、660nm、700nm、 740nm、800nm Absorbance range: 0~3Abs (10mm conversion) 0.001Abs Resolution: Control and Calibration: Calibration mode: Linear (one-point, two-point and multi-point), Logit-Log 4P, Logit-Log 5P, Spline, exponential,

2 independent mixers

Mixing system:

Humidity:

Dimension:

Weight:

Water consumption: 20L/hour

300 Kg

Polynomial, Parabola Westgard multi-rule, Cumulative sum check, twin plot Control rules: Operation Unit: Operation system: Windows® XP Professional/Home SP2 or above Windows® Vista Home/Business Interface: Working Conditions: Power Supply: 200~240V, 50Hz, 1500VA or 220/230V, 60Hz, 1500VA or 110/115V, 60Hz, 1500VA Temperature: 15~30°C 35~80%

1180mm x 700mm x 1145mm (W x D x H)

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