



BS-800 Modular System

Clinical Chemistry Solution

mindray
healthcare within reach

BS-800 Modular System

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Total Solution for Clinical Chemistry

BS-800 Modular System combines innovation and high performance into an integrated solution. With an expandable platform, an ever more complete line of chemistry reagents, as well as calibrators and controls, our new solution package can be tailor made to your needs. Innovative technologies built in also ensure your solution is accurate, convenient and cost-efficient.

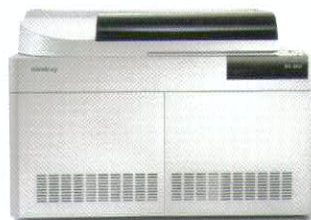
Modular System

BS-800

Throughput: 800/1200T/H

Sample capacity: 140

Reagent capacity: 68



BS-800M1

Throughput: 800/1200T/H

Sample capacity: 440

Reagent capacity: 68



BS-800M2

Throughput: 1600/2400T/H

Sample capacity: 580

Reagent capacity: 136

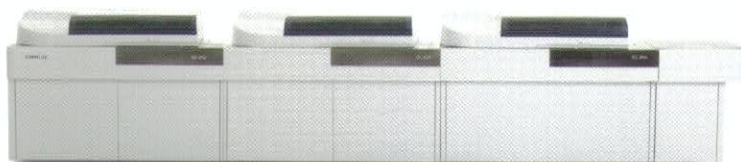


BS-800M3

Throughput: 2400/3600T/H

Sample capacity: 720

Reagent capacity: 204



BS-800M4

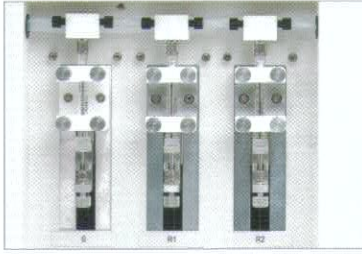
Throughput: 3200/4800T/H

Sample capacity: 860

Reagent capacity: 272



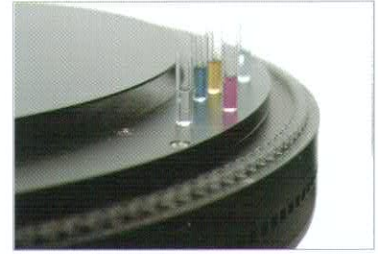
Accurate



- **High sampling precision**
15~300 μL reagent sampling with step at 0.5 μL , 1.5~35 μL specimen sampling with step at 0.1 μL



- **Water circulation reagent cooling**
Ensures a stable 2~8°C refrigeration temperature in reagent disk

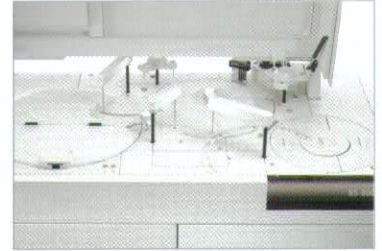


- **Direct solid-heating system**
Fast heating of reaction disk, ensures temperature is kept at 37°C with 0.1°C fluctuation

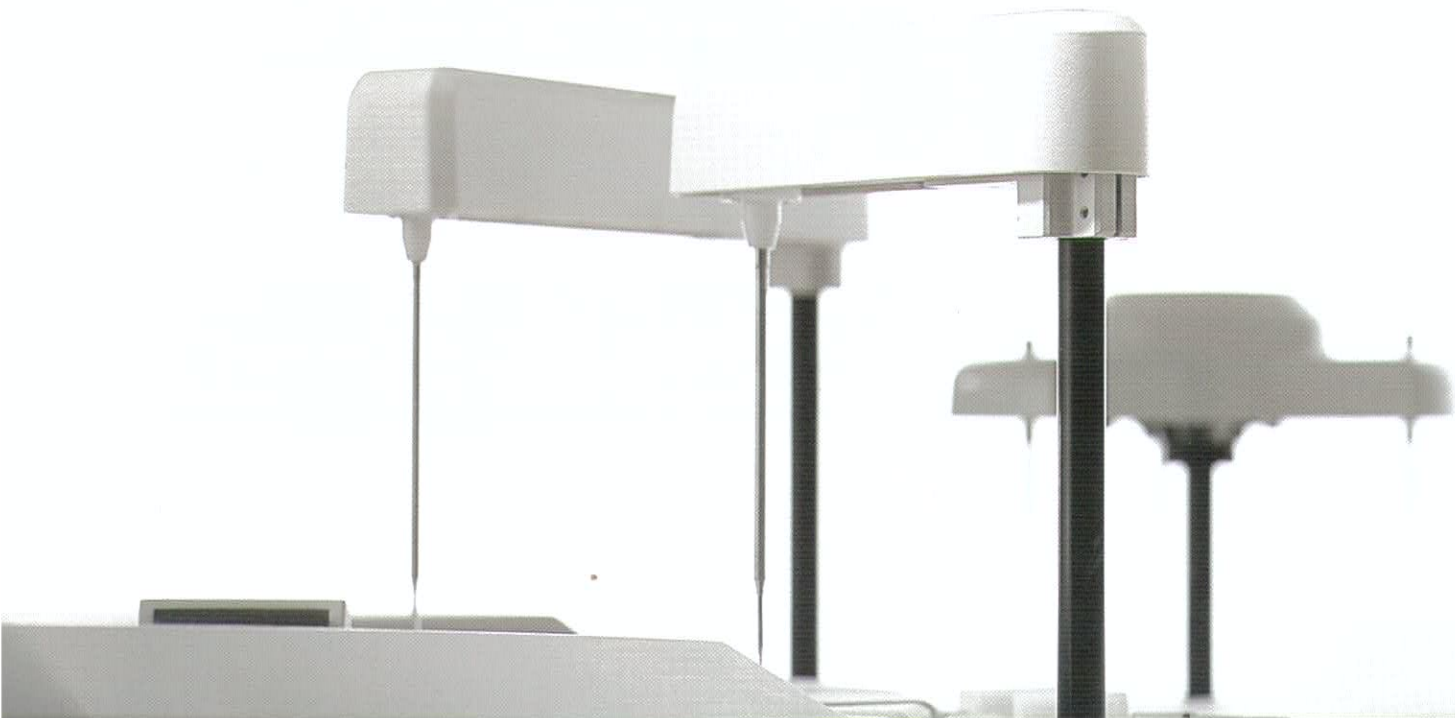
Secure



- **Collision protection**
Vertical and horizontal collision protection for sample and reagent probes



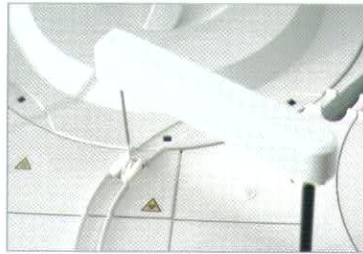
- **Waterproof design**
Waterproof cover for all electronic components with specialized channel on cover panel to direct water away





● **Effective mixer unit**

Independent mixing units for reagents and samples. Three-head mixing bars improve performance. Two-grade washing reduces contaminants significantly



● **Intelligent clot detection**

Can detect and differentiate between full-jam, half-jam, and bubbles, ensuring accurate sample aspiration

Task	Priority	Frequency	Time/Date	Status	Operator	Last Performed
Check Sample Probe/Reagent Probe/Aspirator	High	System	Zhang Ling	2009/11/18 9:30		
Check Wash Water	Low	System	Zhang Ling	2009/11/18 9:30		
Check Sample/Reagent Settings	Low	System	Zhang Ling	2009/11/18 9:30		
Check Desorbent Water	Low	System	Zhang Ling	2009/11/18 9:30		
Check Waste	Low	System	Zhang Ling	2009/11/18 9:30		
Check Concentrated Wash Solution	Low	System	Zhang Ling	2009/11/18 9:30		

● **Maintenance guide**

Easy for operator to perform maintenance procedures, with embedded guides to help users solve problems quickly



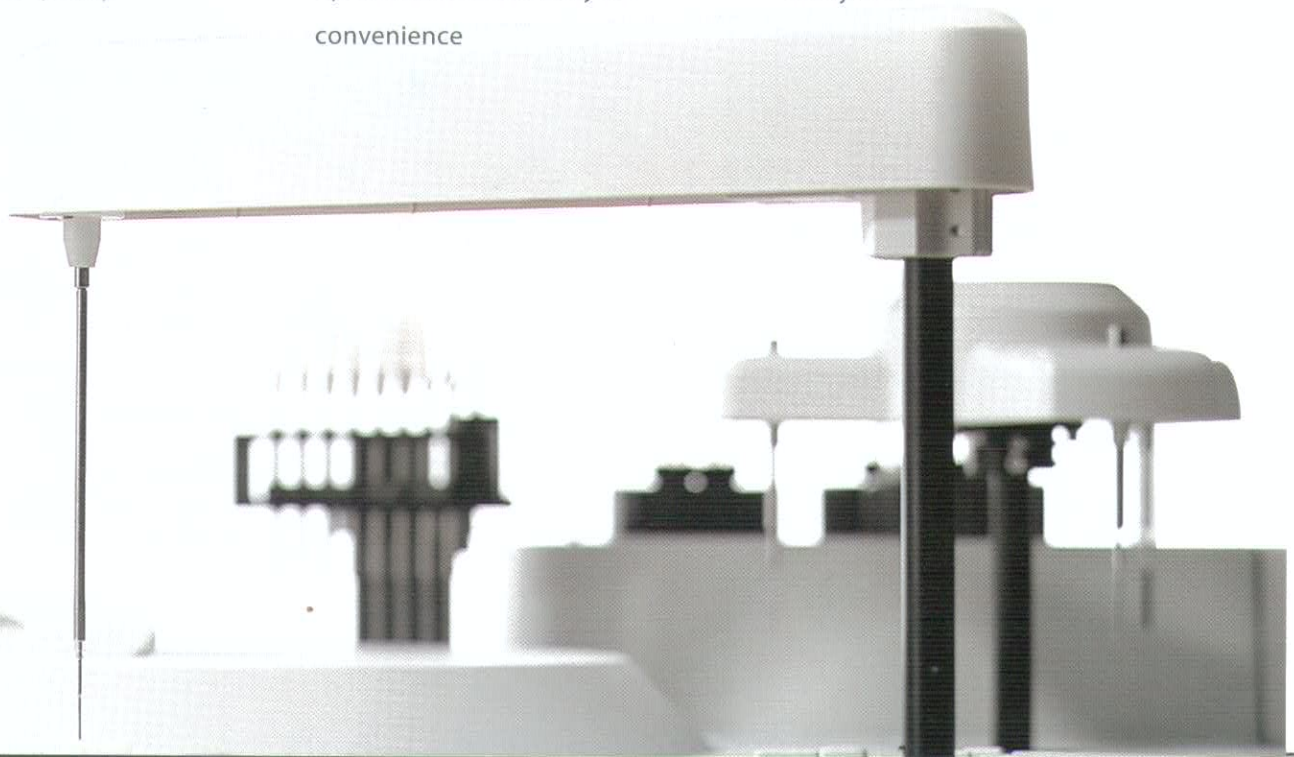
● **Covered sampling system**

Sampling system is fully covered during testing to improve safety. Sample disk can be partially opened when necessary for convenience

Error Log		Default/Full Log		Operation Log	
Event ID	Event Time	Event Description	Event Class	System	

● **Warning log**

Extensive warning log lists detailed information for operator & service personnel to maintain the system



Innovative

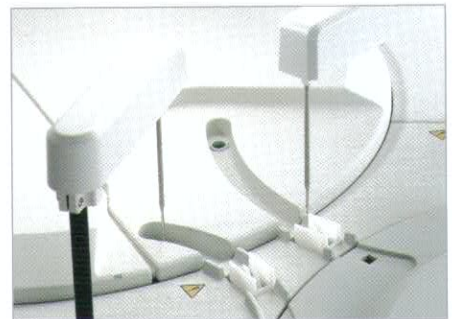
Coaxial reagent disk

Specialized coaxial reagent disk makes replacing reagents convenient while half cover design improves user safety



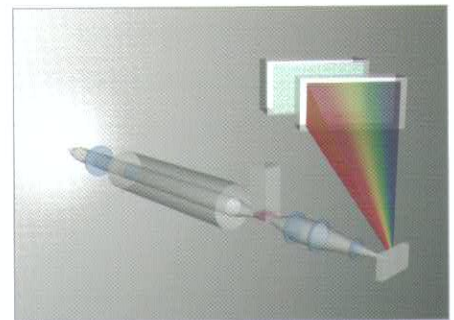
Reagent bubble detection

Able to detect bubbles in reagent bottles, as well as detect real liquid level before reagent aspiration



Dot light source

Dual-diaphragm and dual-lens technologies enable dual-focus of forward light. These technologies create a high intensity, focused light which improves accuracy and decreases minimum reaction volume



Water quality monitor

Analyzes and monitors quality of deionized water via resistance principle, reducing possible contamination



Cost-efficient

- **Large capacity**

140 sample positions, 300 additional sample positions via optional Sample Delivery Module (SDM), 68 onboard tests together with a reaction disk with 165 permanent glass cuvettes give users improved walk-away convenience



- **Low reagent consumption**

100 µL minimum reaction volume reduces reagent cost. Unique design of reagent bottle minimizes residual volume



- **One key STAT**

Perform STAT tests instantly with one key. Dedicated STAT sample disk and racks facilitate easier as well as prompt STAT testing



- **Continuous reagent loading and unloading**

Two disk rotation buttons allow safe continuous loading and unloading during testing



- **Indirect ISE**

Lower sample consumption and higher ISE measurement throughput, as well as cost-effective electrodes that support up to 60,000 tests (20,000 tests/electrode)



BS-800 Modular System

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Technical Specifications

System Function:

Throughput: BS-800: 800T/H, up to 1200T/H with ISE
BS-800M1-4:
From 800T/H to 3200T/H, and 1200T/H
to 4800T/H with ISE

Sample Handling:

Sample tray: 140 positions including 25 cooling positions for
calibrators and controls
SDM: 300 samples capacity with 30 racks
Sample volume: 1.5~35 μ L, step at 0.1 μ L
Sample probe: Liquid level detection, clot detection and collision
protection

Reagent Handling:

Reagent tray: 120 positions in coaxial disks
Reagent volume: 15~300 μ L, step at 0.5 μ L
Sample probe: Liquid level detection, bubble detection and collision
protection

External 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/EAN, Code93;
Capable to communicate with LIS in a
bi-directional mode

Reaction System:

Reaction volume: 100~360 μ L
Operating temperature: 37°C with 0.1°C fluctuation

Optical System:

Light source: Halogen tungsten lamp
Photometer: Reversed optics, grating photometry
Wavelength: 340nm, 380nm, 412nm, 450nm, 505nm, 546nm,
570nm, 605nm, 660nm, 700nm, 740nm, 800nm
Absorbance range: 0~3.4Abs(10mm conversion)

ISE Module (Optional):

Principle: Indirect K^+ , $Na^+ Cl^-$, with 22 μ L sample aspiration

Control and Calibration:

Calibration mode: Linear (one-point, two-point and multi-point),
Logit-Log 4P, Logit-Log 5P, Spline,
Exponential, Polynomial, Parabola
Control rules: Westgard multi-rule, Twin plot

Operation Unit:

Operation system: Windows® XP Professional/Home SP2 or above

DISTRIBUTOR:



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P/N: ENG-BS800MS-210285x8-20100715

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