BS-200

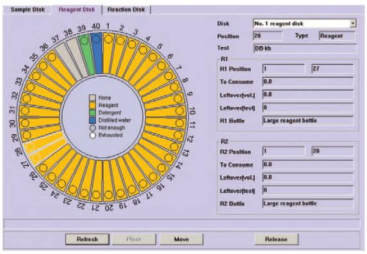
Chemistry Analyzer

mindray
NORTH AMERICA
healthcare within reach

BS-200

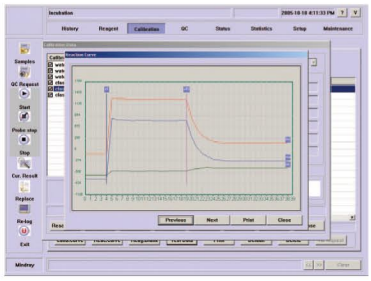
Chemistry Analyzer

- Discrete, random access, automated
- 200 tests per hour, up to 330 tests per hour with ISE
- Bi-directional LIS interface transmission
- ISE module and internal bar code reader
- 40 samples and 40 reagents positions
- Automatic probe cleaning, liquid level detection, collision protection
- Reversed optic system with 8 wavelengths: 340~670nm
- Refrigerated reagent and sample compartment



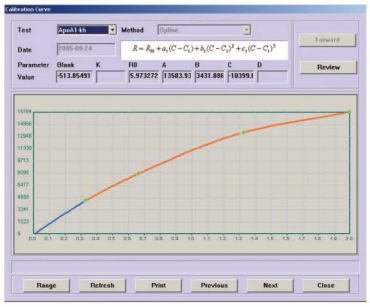
Dynamic and Real-time display of run status

- Run status of reagent tray, sample tray and reaction tray display
- Reagent residual volume real-time monitoring
- Intelligent carry-over function to adjust test sequence
- Probe depth adjusted automatically



Original reaction data record

- Real-time monitoring of reaction curve
- Bichromatic testing to prevent interference
- Simultaneously primary and secondary wavelengths display
- Detailed alert messages profile
- Real-time diagnosis of system working status



Optimum calibration curve

- Linear curve types: One-point linear, Two-point linear and Multi-point linear.
- Nonlinear curve types: Logistic-Log 4P、Logistic-Log 5P、Exponential 5P、Polynomial 5P and Spline.

High quality ISE Module

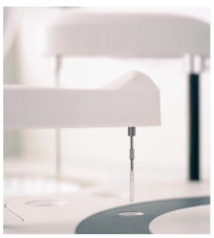
- Measuring K^+, Na^+, Cl^-
- Throughput: up to 225 tests per hour
- 6 months shelf life

Multi-functional sample/reagent tray

- Internal reagent/sample bar code reader
- 40 positions for samples and reagents respectively
- Up to 20/10 virtual sample/reagent trays can be programmed
- Primary tube and various sample cups can be used, flexible samples, control, calibrator and STAT positions
- 24 hour non-stop Peltier refrigeration

Disposable reaction cuvettes

- Disposable cuvettes eliminate carry-over and minimize operational costs
- Automatic cuvettes blank testing ensure results accuracy



High performance mixer design

- Eliminate cross contamination
- Optimal homogenization at minimal time
- Mixing begin immediately after sample or the second reagent dispension, high efficiency

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Chemistry Analyzer

Technical Specifications

System Function:

	Automatic, Discrete, Random Access
	STAT sample priority
Throughput:	Up to 200 tests/hour (without ISE), up to 330 tests/hour with ISE
Measuring principles:	
	Absorbance photometry, Turbidimetry, Ion Selective Electrode technology
Methodology:	End-point, Fixed-time, Kinetic, optional ISE
	Single/Dual reagent chemistries, monochromatic / bichromatic
	Linear / non-linear multi-point calibration
Programming:	Open system, user defined profiles and chemistry calculations

Reagent/Sample Handling:

Reagent/Sample tray:	
	40 positions for reagents and 40 positions for samples in refrigerated compartment (4~15˚C)
Reagent volume:	
R1:	180~450µl, step by 1µl
R2:	30~450µl, step by 1µl
Sample volume:	3~45µl, step by 0.5µl
Reagent/Sample probe:	
	Liquid level detection, collision protection and inventory detection
Probe cleaning:	Automatic interior and exterior probe wash; carry-over < 0.1%
Automatic sample dilution:	
	Pre-dilution and post-dilution dilution ratio up to 1:150
dilution vessel:	Disposable cuvette;maximun 80 positions

Internal Bar Code Reader:

sample and reagent bar code scan
Applicable to various bar code systems Codabar, ITF (Interleaved Two of Five), code128, code39, UPC/EAN, Code93
Bi-directional LIS Interface Transmission

ISE Module:

Measuring:	K^+, Na^+, Cl^-
Throughput:	Up to 225 tests per hour

Reaction System:

Reaction rotor:	Rotating tray containing 80 cuvettes
Cuvette:	Optical length 5mm
Reaction volume:	180~500µl
Reaction temperature:	37˚C
Temperature fluctuation:	±0.1˚C
Mixing System:	Standalone mixing bar

Optical System:

Light Source:	Halogen-tungsten lamp
Photometer:	Reversed optics, static fiber spot photometry
Wavelength:	340nm、405nm、450nm、510nm、546nm、578nm、630nm、670nm
Absorption range:	0~4.0Abs (10mm conversion)
Resolution:	0.0001Abs

Control and Calibration:

Calibration mode:	Linear (one-point, two-point and multi-point), Logit-Log 4P, Logit-Log 5P, spline, exponential, polynomial, parabola
Control software:	Westgard multi-rule, Cumulative sum check, twin plot; L-J

Operation Unit:

Operation system:	Windows® XP Professional/Home SP2 or above
	Windows® VISTA Home/Business
	Windows® 7 Professional 32 bit
Interface:	RS-232

Working Conditions:

Power Supply:	AC100~130V, 50/60Hz, 1000W
Temperature:	15˚C~30˚C
Humidity:	35%~80%
Water consumption:	3.5L/hour
Dimension:	Bench top: 34 inch (W) x28 inch (D)x25 inch (H)
Floor standing:	34 inch (W) x28 inch (D)x46 inch (H)
Weight:	Bench top: 256 lbs
	Cabinet (optional): 112 lbs

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Mindray is listed on the NYSE under the symbol"MR"

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