



BS-120 Chemistry Analyzer

mindray
healthcare within reach

BS-120 Chemistry Analyzer

- Discrete, random access, fully automated
- 100 tests per hour, up to 300 tests per hour with ISE
- Up to 33 onboard chemistries and 4 ions
- Refrigerated reagent compartment
- Flexible configuration for sample/reagent positions
- Automatic probe cleaning, liquid level detection & collision protection
- 8 wavelengths: 340~670nm
- Automatic dilution for abnormal sample
- External bar code reader (optional)
- Bi-directional LIS interface



Dynamic and Real-time display of running status

- Running status of reagent/sample tray and reaction tray
- Real-time monitoring of reagent residual volume
- Real-time diagnosis of system working status



Original reaction data record

- Real-time monitoring of reaction
- Bichromatic testing to avoid interference
- Simultaneously display primary and secondary wavelengths
- Detailed profile of alert messages



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



Flexible sample/reagent tray

- Optional external reagent/sample bar code reader
- Up to 33 positions for sample, up to 35 positions for reagent
- Up to 20/10 virtual sample/reagent trays can be programmed
- 24 hour non-stop cooling with Peltier elements



High quality ISE module (optional)

- Measurements of K⁺, Na⁺, Cl⁻, Li⁺
- Throughput: up to 200 tests per hour
- 6 months shelf life



Disposable reaction cuvettes

- Disposable cuvettes to avoid carry-over and to save testing costs
- Automatic cuvettes blank testing to assure precise results



High performance mixer design

- Avoid cross contamination
- Optimal homogenization in minimum time
- Thoroughly mixes after dispensing of sample or second reagent

BS-120 Chemistry Analyzer

Technical Specifications

System Function: Automatic, discrete, random access, STAT sample priority

Throughput: Up to 100 tests/hour (without ISE), up to 300 tests/hour with ISE (4 ions)

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 multipoint calibration

Programming: Open system with user defined profiles and calculations

Reagent/Sample Handling:

Reagent/Sample tray: Up to 33 positions for sample, up to 35 positions for reagent; 24 hour non-stop refrigerated compartment (4~15°C)

Reagent volume: R1: 180~450µl, step by 1µl; R2: 30~250µl, step by 1µl

Sample volume: 3~45µl, step by 0.5µl

Reagent/Sample probe: Liquid level detection, collision protection and inventory checking

Probe cleaning: Automatic washing both interior and exterior; Carry-over < 0.1%

Automatic sample dilution: Pre-dilution and post-dilution dilution ratio up to 1: 150

Dilution vessel: Disposable cuvette

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

ISE Module (optional):

Measuring parameter: K⁺, Na⁺, Cl⁻, Li⁺

Throughput: Up to 200 tests per hour

Reaction System:

Reaction rotor: Rotating tray, containing 40 cuvettes

Cuvette: Optical length 5mm

Cuvette volume: 180~500µl

Reaction temperature: 37±0.1°C

Mixing system: Independent mixing bar

Optical System:

Light Source: Halogen-tungsten lamp

Wavelength: 340nm, 405nm, 450nm, 510nm, 546nm, 578nm, 630nm, 670nm

Linear range: 0~3.5Abs

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, Cumulative sum check, Twin plot

Operation Unit:

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

Interface: RS-232

Working Conditions:

Power Supply: AC 200~240V, 50/60Hz, 800W or AC 100~130V, 50/60Hz, 800W

Temperature: 15~30°C

Humidity: 35~85%

Water consumption: 2.5L/hour

Dimension: Bench top: 690mm(W)x570 mm(D)x595 mm(H)

Weight: 75 Kg

DISTRIBUTOR:

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