



BS-430

Chemistry Analyzer



mindray
healthcare within reach

BS-430

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Technical Specifications

System Function: Automatic, discrete, random access, STAT sample priority
Throughput: 420 photometric tests per hour, up to 626 tests per hour with ISE
On-board tests: 90 photometric tests + 3 ISEs + 3 serum indices

Sample Handling:
Sample tray: 102 sample positions,
Sample volume: 1.5 μ L~45 μ L, step by 0.1 μ L
Sample probe: Liquid level detection, collision protection, clog detection (optional), and auto-dilution, automatic hemolysis
Carry-over \leq 0.05 μ L

Reagent Handling:
Reagent tray: 92 reagent positions with 24-hour refrigeration 2~8 $^{\circ}$ C,
Reagent volume: 10 μ L~200 μ L, step by 0.5 μ L
Reagent probe: Liquid level detection, collision protection, bubble detection, concentrated reagent with auto-dilution

Built-in Bar Code Reader (optional):
Sample and reagent bar code readers support Codabar, ITF (Interleaved Two of Five), Code128, Code39, UPC/EAN and code93, Capable to connect with LIS in Bi-directional mode

Reaction System:
Cuvettes: 93 reusable cuvettes with 8-step auto-washing
Reaction temperature: 37 \pm 0.1 $^{\circ}$ C
Reaction volume: 100~300 μ L
Mixing system: 2 independent mixers with speed detection

Optical System:
Light source: 12V 20W tungsten-halogen lamp
Photometer: Grating system
Wavelength: 340nm, 380nm, 412nm, 450nm, 505nm, 546nm, 570nm, 605nm, 660nm, 700nm, 740nm, 800nm
Absorbance range: 0~3.5A

ISE Module (Optional):
K⁺, Na⁺, Cl⁻

Control and Calibration:
Calibration mode: K factor, Linear (two points and multi-points), Logit-Log 4P, Logit-Log 5P, spline, exponential, polynomial, parabola, Logit-log3P, broken line
Control rules: Westgard multi-rule, Levey-Jennings, Cumulative sum check, Twin plot

Operation Unit:
Operation system: Windows 10
Interface: RS-232 serial port

Working Conditions
Power supply: 220V-240V, 50/60Hz, \leq 1000VA or 110V-130V, 60Hz, \leq 1000VA
Water consumption: \leq 20 L/H
Dimension: 1050 mm (W) * 720 mm (D) * 1150 mm (H)
Weight: \leq 200 Kg

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