

# BS-300

## Chemistry Analyzer

### Technical Specifications

**System Function:** Automated, discrete, random- access for routine, STAT, urine and homogeneous immuno assays; STAT sample priority

**Throughput:** 300 tests/hour, up to 480 tests/hour with ISE

**Measuring principles:** Absorbance photometry, Turbidimetry

**Methodology:** End-point, Fixed time, Kinetic, Single/Dual reagent chemistries, Monochromatic/Bichromatic, Linear/Non-linear multipoint calibration

**Programming:** User defined profiles and calculation

### Sample Handling:

**Sample tray:** 60 positions for primary or secondary tubes sample cup

**Sample volume:** 3~45  $\mu$ l, step by 0.5  $\mu$ l

**Sample probe:** Liquid level detection and collision protection

**Probe cleaning:** Internal and external washing < 0.1%

**Automatic sample dilution:**

Pre-dilution and post-dilution

Dilution ratio up to 150

Dilution vessel: Cuvette

### Internal bar code reader:

Used for sample programming

Be applicable to various bar code systems of code 128, code 39, code 93, codabar, ITF, UPC/EAN

Capable to link with LIS in a bi-directional mode

### ISE Module

Optional selection for  $K^+$ ,  $Na^+$ ,  $Cl^-$  /  $K^+$ ,  $Na^+$ ,  $Cl^-$ ,  $Li^+$

**Throughput:** Up to 180 or 240 tests per hour

### Reagents Handling:

**Reagent tray:** 50 positions in refrigerated compartment (4~10°C)

**Reagent volume:** 30~450  $\mu$ l, step by 1  $\mu$ l

**Reagent probe:** Liquid level detection and collision protection reagent pre-heating and inventory checking

**Probe cleaning:** Internal and external washing carry-over < 0.1%

### Reaction System:

**Reaction rotor:** Rotating tray, 80 disposable cuvettes with automatic loading

**Cuvette:** Optical length 5mm

**Reaction volume:** 180~500  $\mu$ l

**Operating temperature:** 37 $\pm$ 0.1°C

**Mixing:** Independent mixer

### Optical System:

**Light Source:** Halogen-tungsten lamp

**Photometer:** reversed optics, static fiber spot photometry

**Wavelength:** 340, 405, 450, 510, 546, 578, 630, 670, 700nm

**Resolution:** 0.001Abs

### Control and calibration:

**Calibration mode:** Linear (one point, two points and multi-points), Logit-Log 4P, Logit-Log 5P, Spline Exponential 5P, Polynomial 5P, Parabola

**Control software:** X-R, L-J, Westgard multi-rule, Cumulative sumcheck, twin plot

### Operation Unit:

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

**Interface:** RS-232

### Working Conditions:

**Power Supply:** 200 - 240V~50/60Hz, 1000W or 100 - 130V~50/60Hz, 1000W

**Temperature:** 15-30°C

**Humidity:** 35-80%

**Water consumption:** 3.5 L/hour De-ionized water

**Dimension:** 980mm x 710mm x 1200mm (W x D x H)

**Weight:** 175kg



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