

# BA-800M

## Clinical Chemistry Solution

### Technical Specifications

#### System Function:

Throughput: 800 photometric tests per hour  
1200 T/H with ISE

#### Sample Handling:

Sample capacity: Total sample capacity is 440 (140 positions on the sample tray and 300 positions on the Sample Delivery Module)

Sample tray: 25 cooled positions for calibrators and controls

Sample volume: 1.5 ~35  $\mu$ L, step at 0.1  $\mu$ L  
22  $\mu$ L for ISE

Sample probe: Liquid level detection, clot detection and collision protection

#### Reagent Handling:

Reagent tray: 120 positions

Reagent volume: 15~300  $\mu$ L, step at 0.5  $\mu$ L

Reagent probe: Liquid level detection, bubble detection and collision protection

#### Reaction System:

Reaction volume: 100~360  $\mu$ L

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  $K^+$ ,  $Na^+ Cl^-$

#### Barcode and Data Transmission:

Codabar, ITF (Interleaved Two of Five),  
Code128, Code39, UPC/EAN, Code93;  
Bi-directional LIS interface transmission

#### 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  
Windows® 7/ Windows® 8

#### Weight:

BA-800M: 1430 lb

#### Dimension:

BA-800M: 40 in x 47 in x 91 in (D x H x L)



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healthcare within reach

## Innovative

### Coaxial reagent disk

Unique coaxial reagent disks design making reagent replacement time saving and convenient. The semi-opened cover ensures operator safety during operation.



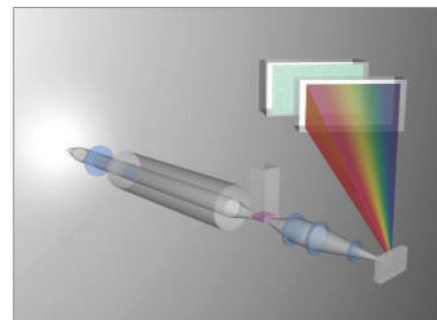
### Reagent bubble detection

System provides sufficient reagent aspiration through liquid level and reagent bubble detection technology.



### Dot light source

The dual focus of forward lighting is possible via the dual-diaphragm and dual-lens technology which creates a high intensity focused light. Thus, lower the minimum reaction volume and enhances measuring accuracy.



### Water quality monitor

The system employs resistance principle. It provides premium DI Water quality for assay analysis and reduces potential contamination.



## Cost-efficient

### Large sample capacity

Total sample capacity is 440 (140 positions on the sample tray and 300 positions on the Sample Delivery Module). The Sample Delivery Module automatically delivers samples to the analytical unit. The large sample capacity coupled with 165 washable permanent cuvettes allows the operator hours of walk-away time.



### Low reagent consumption

Uniquely designed reagent bottles maximize reagent usage and reduce residual volume.



### One key STAT

Dedicated One-Key STAT test button, STAT sample position, and STAT sample rack provide prompt response to the highest priority samples.



### Continuous reagent loading and unloading

Two separate buttons independently control each reagent carousel; it ensures safe and continuous reagent replacement during testing.



### Indirect ISE

Low sample volume, high ISE analysis throughput, and cost-effective electrodes. Each electrode supports up to 30,000 total test volume or three months.

