

# Automatic Chemiluminescence Immunoassay System BK1100



### Introduction:

The chemiluminescence immunoassay system uses magnetic particle separation technology, which uses magnetic particles as antibody carriers, which can be evenly distributed in the liquid phase reaction system, with faster reaction speed and higher efficiency. Using enzymatic chemiluminescence method, the light signal is more stable. A new generation of enzymatic substrates, with higher sensitivity and faster luminescence.



### Reagent Tray

- ▶ Forced air cooling, maintenance-free;
- ▶ Up to 25 items can be tested at the same time, can be replaced at any time;
- ▶ Remaining liquid detection, real-time alarm;
- ▶ Support scanning bar code loading.

### Sample Tray

- ▶ 60 sample positions;
- ▶ Support emergency insertion;
- ▶ Support blood collection tube, sample vessel loading.



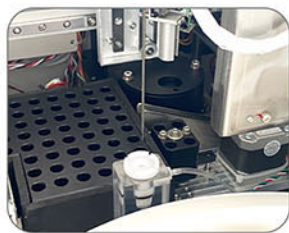
### Operating System

- ▶ Humanized design software function;
- ▶ Clear warning of consumables status, adding in advance is more worry-free;
- ▶ The detection process is updated in real time, easy to grasp the reporting time;
- ▶ Fault warning, remote assistance, and active maintenance are more intimate.

### Instrument Performance:

Excellent performance	Compact and convenient	Original system design
<ul style="list-style-type: none"> <li>▶ Tubular enzymatic chemiluminescence;</li> <li>▶ The max speed of a single machine is 180T/h;</li> <li>▶ Carrying contamination rate&lt; 10ppm;</li> <li>▶ High precision: intra-batch precision ≤ 5%.</li> </ul>	<ul style="list-style-type: none"> <li>▶ 0.68 square meters, highly integrated and simplified patented design;</li> <li>▶ Support LIS bidirectional communication, built-in sample bar code scanning.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Intelligent software: automatic intelligent control technology can achieve hierarchical alarm;</li> <li>▶ Convenient operation: wizard visual interface, one key daily maintenance operation.</li> </ul>

### Technical Advantages:



### Sample Probe

- ▶ Sample integrity control: level, clot and bubble detection;
- ▶ Needle tip cone-angle design to reduce liquid hanging;
- ▶ Quantity tracking, intelligent collision avoidance;
- ▶ Negative pressure washing, cleaning more thoroughly.



### RV Loading Module

Reaction vessels can be added by pouring, without manual arrangement.



### Washing and mixing module

- ▶ Incubation, cleaning and testing one-machine design;
- ▶ Fully enclosed independent incubation system with 58 incubation positions;
- ▶ 12 independent cleaning positions;
- ▶ Triple magnetic separation cleaning technology is adopted;
- ▶ Original photon counting dark chamber.

### Technical Parameter:

Model	BK1100
Throughput	180T/H
Principle	Magnetic particle enzymatic chemiluminescence
Modes of Operation	Random, Batch and STAT
Separation Method	Magnetic separation technology
Sample Positions	60 (Each position could be used as an emergency position)
Reagent Positions	25 pcs (2-8°C refrigeration)
Incubation Positions	58
Time to 1 <sup>st</sup> Result	18 Minutes
Sample Volume	10-200μl
Detection Precision	CV≤5%
Carry-over Rate	≤10 <sup>-5</sup>
Correlation Coefficient	r≥0.99
Calibration Stability	28 Days
Calibration Type	6/7-point calibration
Software System	Windows 7/8/10, 32 or 64 bit; Bi-direction, support HL7 protocol; Intuitive User Interface, Intelligent Data Management
Interface	TCP/IP Network interface
Other Function	Liquid level detection; Anti-collision function; Sample barcode scanning; Intelligent alarm prompt
Power Supply	AC220V 50/60Hz (Standard); AC110V 60Hz (Optional)
External Size (W*D*H)	768*771*568
Net Weight	94 kg
Package Size (W*D*H)	1303*873*854mm
Gross Weight	163kg