



CL-1200i

Chemiluminescence Immunoassay System



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CL-1200i

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Technical Specifications

General Information

Throughput	Up to 180 tests/hour
Measurement Principle	Micron superparamagnetic particles platform with alkaline phosphatase (ALP) labeled reagents and AMPPD substrate

Sample Assembly

Sample Feeder	Continuous sample loading and offloading by sample racks
Sample Rack	10 positions per rack, same as BS-800/BS-2000/CL-2000i series
Sample Capacity	Up to 60 samples in one batch
Sample Probe	Steel probe, liquid level detection, clot detection, horizontal and vertical collision protection
Sample Volume	10 μ l~200 μ l, with increment of 1 μ l
Sample Dilution	Automatic dilution with 1:2 ~ 1:80

Reagent Assembly

Reagent Disk	25 reagent positions, continuous loading, real-time mixing for magnetic particles
Cooling System	2°C~8°C
Reagent Pack	50 tests per pack, 100 tests per pack
Reagent Scanning	Built-in/external bar code reader scanning
Reagent Probe	Steel probe, liquid level detection, bubble detection, horizontal and vertical collision protection
Reagent Volume	20 μ l~200 μ l, with increment of 1 μ l

Substrate System

Substrate Bottle	300/500 tests per bottle, bottom piercing
Substrate Loading	Capable of continuous loading during testing
Substrate Heating	Constant heating
Aspiration Volume	200 μ l

Magnetic Separation Unit

Separation Assembly	4-phase magnetic separation
Temperature	Accuracy: 37 \pm 0.3°C, fluctuation: \pm 0.2°C

Measurement and Reaction System

Detection Mode	Photon counting
Signal Detector	Photomultiplier (PMT) photon counter
PMT Calibration	LED reference module
Reaction Carousel	75 positions
Temperature	Accuracy: 37 \pm 0.3°C, fluctuation: \pm 0.2°C
Mixing Unit	Non-touch vortexer mixing

Cuvette Loading and Waste Collection

Cuvette	Disposable plastic cuvette
Cuvette Loading	88 cuvettes per tray, two trays can be loaded in one batch, continuous loading and offloading
Waste Collection	Waste container, 185 cuvettes per box

Working Conditions

Power Supply	110V/115V~, 60Hz; 220V-240V~, 50Hz; 220V/230V~, 60Hz
Input Power	2000VA
Operating Temperature	15°C~30°C
Relative Humidity	35%RH~80%RH, without condensation
Dimension	Main Unit: 1400mm*760mm*600mm (W*D*H) Weight: 225kg
Altitude Height	-400m~4000m

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P/N: ENG-CL1200i-21285x6-20160901



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