

# Lumiray 1200

Auto Chemiluminescence analyzer



- Fully automated, random access, STAT priority
- Advanced CLIA technology:
  - ☆ Enzymatic chemiluminescence principle
  - ☆ Glow-type luminescence
  - ☆ ALP-AMPPD system, and up to  $10^{-21}$  mol/L high detection sensitivity
  - ☆ Independent magnetic separation washing system, cleanser pre-heating function
- Throughput up to 120 tests/hour
- 60 sample positions, 24 reagents set position with 24-hours refrigeration
- Continuous cuvettes loading
- Auto dilution, liquid level detection, collision protection, clot detection
- Bi-direction LIS system

# Lumiray 1200

## Chemiluminescence analyzer

### Technical Specifications

#### • The machine parameters

**Instrument types:**

fully automatic tube type chemiluminescence detector

**Emergency insert:**

true random access, special separate tray for STAT samples

**Throughput:** 120 T/H

**Detection principle:**

enzymatic chemiluminescence

#### • Detection method

**Reactive Mode:**

sandwich, competition, indirect, trapping method

**Testing process:**

one-step, two-step, three-step method, etc

**Calibration method:**

built-in main calibration curves, two-point calibration, six-point calibration

#### • Optical system

- Independent stability calibration LED light source, ensuring the metering accuracy
- Independent light testing module to completely eliminate the interference of environment
- Constantly temperature control to eliminate the influence of temperature fluctuation on the test results

#### • Sample system

- 60 samples positions
- Sample volume:  
5-100 $\mu$ L, 1 $\mu$ L adjustable
- Support standard collection tube, vacuum collection tube, and micro blood cup, etc
- Support automatic sample dilution function for multiple items detection
- Built-in sample bar code reader

#### • Reagent system

- 24 sets of reagent position
- Reagent volume(R1,R2,M): 20-150 $\mu$ L, 1 $\mu$ L adjustable
- 24 hours non-stop cooling with peltier element
- Built-in sample bar code reader
- Support liquid level detection, collision protection, clot detection and inventory checking



#### • Reaction system

- Continuous disposable cuvettes loading capacity: 500pcs
- Automatic loading and unloading Reaction cuvettes with automatic alarm function
- Direct heating for incubation

#### • Independent magnetic separation system

- 4-step magnetic separation combined with vortex type resuspension of magnetic particles to ensure cleaning efficiency.
- Array-type surrounding magnetic field design to precisely control the loss of magnetic particles; achieve optimal repeatability of magnetic separation.

#### • Working Condition

Power supply: 100-240V, AC 50/60Hz, 1500W

Temperature: 10°C -30°C

Humidity: less than 70%

• **Dimension:** 1240mm(L) \* 790mm(W) \* 1135mm(H)

• **Weight:** 350kg

