

Automatic Chemiluminescence Immunoassay Analyzer KDS-F8800



1	Operation Method	15.6-inch Large Touch Screen
2	Dimensions	390mm * 560mm * 480mm (W * D * H)
3	Reagent Positions	12 Reagent Positions
4	Test Speed	80 Tests/Hour (Tube-based)
5	Mixing Method	Oscillatory Mixing
6	Sample Capacity	10 Samples (5 Samples/Rack * 2 Racks)
7	Installation Method	Mechanical Automatic Calibration, Easy Installation
8	Language System	Multi-language Support
9	Printing Method	Built-in Thermal Printer for Direct Report Output
10	LIS System	Support for LIS Unidirectional/Bidirectional Communication

KDS-F8800 Performance Parameters

Basic Parameters

Service Life	7 years, supports 24-hour continuous operation without shutdown for long periods
Model & Dimensions	Benchtop, 390mm * 560mm * 480mm (W * D * H)
Operating Environment	10-30°C, 35%-80% non-condensing humidity, altitude -400 to 5000m (suitable for high-altitude areas)
Power Input & Power	220~240V, 50Hz; 110~115V, 60Hz
Test Speed	80 Tests/Hour
Off-board Time	> 60min
Assay Principle	Magnetic microparticles as solid phase carrier, acridinium ester direct chemiluminescence
Assay Modes	1-step, 1.5-step, 2-step, automatic pre-dilution, and sample pre-treatment
Analyzer Functions	Includes status monitoring, test application, result viewing, transmission & printing, calibration & QC-related settings, maintenance & debugging, etc., with daily check function

Samples & Reagents

Number of Calibrator Points	Supports 2-14 point calibration
Quality Control (QC)	Independent QC function, supports Levey-Jennings QC charts and Westgard multi-rule QC, with automatic reminder for users to run QC tests
Sample Loading	10 sample positions (5-tube sample racks × 2)
STAT (Emergency Testing)	1 dedicated STAT position
Sample Types	serum, plasma, urine, tissue fluid, Whole Blood
Sample Pipetting	Steel probe sample aspiration, 10-150μL, CV < 1.5%
Carryover Contamination	Less than 0.1ppm
Liquid Level Detection	Available
Clogged Probe & Dry Aspiration Detection	Available
Sample Dilution	Supports automatic dilution, 2-1000 fold optional
Reagent Loading	12 reagent positions
On-board Reagent Storage	Reagent tray refrigeration at 2~8°C
Mixing of Sample and Reagent Mixture	Vortex mixing

Instrument Performance

Luminol Solution Repeatability	CV ≤ 3%
Clinical Precision	CV ≤ 5%
Clinical Assay Day-to-Day Stability	Test deviation of stable items ≤ ±8%
Optical Detection Range	100-20M cps
Optical Detection Response Range	400~600nm
Optical Detection Consistency	CV < 1%

Washing & Detection

Reaction Incubation	Adjustable 30-45°C, temperature fluctuation < 0.2°C
Washing	4-Stage Washing
Wash Buffer Dispensing & Precision	320-450μL, independent and adjustable dispensing volume per stage; CV < 0.3%
Waste Liquid Loading	5L or 10L waste container, supports connection to central waste pipeline
Washing & Resuspension	Vortex Mixing
Substrate Loading	60ml substrate bottle
Substrate Dispensing & Precision	50-200μL, CV < 1.5%

Other Functions

Permission Management	Distinguishable administrator and user permissions
Display Selection	15.6-inch large touch screen, operable with latex gloves
Keyboard & Mouse	Support external keyboard and mouse, optional
Printing	Built-in thermal printer, support external conventional printer (optional); Print report forms in A4, A5 or receipt size
LIS	Bidirectional LIS / Unidirectional LIS
Remote Upgrade & Diagnosis	Support remote alarm, diagnosis, recovery, and fault code display
Analyzer Alarm	Audible and visual alarm, visible within 15 meters
Ambient Temperature Monitoring	Real-time monitoring and alerting