

CL-2000i

Chemiluminescence Immunoassay System





Mindray Solution for Immunoassay Tests



Large Capacity

300 samples in one batch Support continuous loading

36 onboard capacity for reagent cartridges 1134 cuvettes loaded in one batch

Easy Operation

Intuitive interface for software Real-time indication of cuvettes, waste and wash buffer status Step-by-step maintenance guide



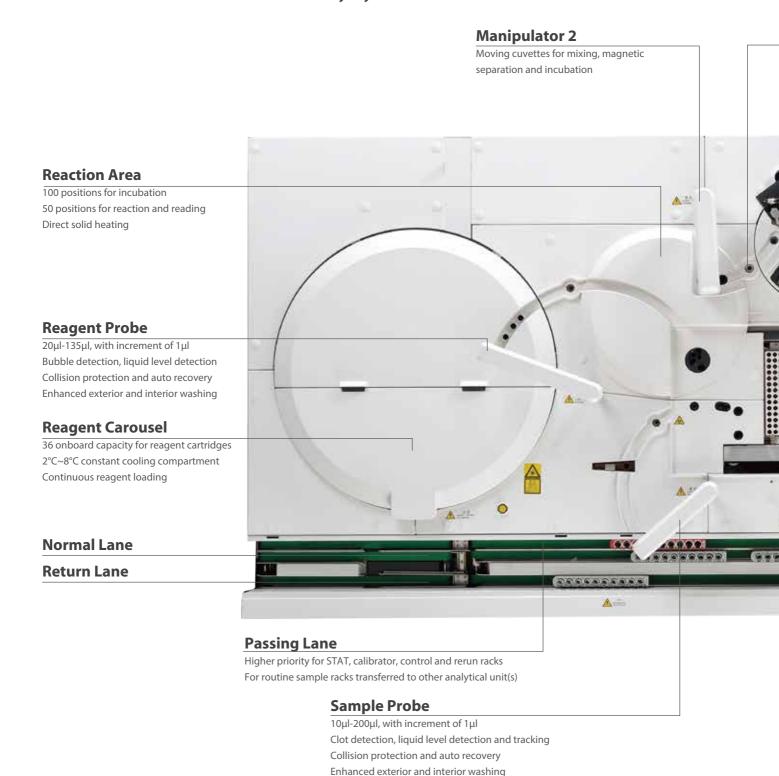
Test Menu

Thyroid	Fertility	Metabolic	Tumor Marker
FT3	Total β-HCG	Intact PTH	CEA
FT4	FSH	Calcitonin	AFP
T3	LH	Vitamin D total	CA125
T4	Prolactin	Ferritin	CA15-3
TSH	E2	Vitamin B12	CA19-9
Anti-TG	E3	Folate	FPSA
Anti-TPO	TESTO	RBC Folate	TPSA
Thyroglobulin (TG)	PROG		NSE
TRAB *	Free testosterone *	Diabetes	CYFRA 21-1
rT3 *	17-OH PROG *	Insulin	CA72-4
	SHBG *	C-peptide	ProGRP *
	'	1	PG I *
Down's screening	Growth hormone	Others	PG II *
PAPP-A *	hGH*	ACTH	SCCA *
Free β-HCG *	IGF-1 *	DHEA-S	HE4 *
rice price	AMH*	Cortisol	CA242 *
	VIVII	COLUSOI	CA50 *

Cardiac	Liver fibrosis	Inflammation
CK-MB	LN *	PCT *
Myoglobin	HA*	
Troponin I	PIIINP *	
BNP	C IV *	
Angiotensin I *		
Angiotensin II *		
Renin *		
Aldosterone *	*To be launched	
	To be lauticiled	
	CE pending	
	CK-MB Myoglobin Troponin I BNP Angiotensin I * Angiotensin II * Renin *	CK-MB Myoglobin Troponin I BNP Angiotensin I * Angiotensin II * Renin * Aldosterone * LN * HA * PIIINP * C IV *

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Cuvettes Area

9 boxes of cuvettes can be loaded in one batch126 cuvettes per boxAutomatic unloading for empty boxes

System Layout

Mixing Unit

High speed vortexer mixing for reaction solution

Magnetic Separation Unit

4-phase washing

Sample Delivery Module (SDM)

Up to 300 samples to be loaded Continuous sample loading and offloading

STAT and RUN buttons

Flexible STAT rack loading One touch to initiate analysis

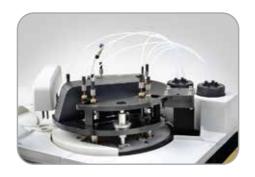
Substrate Bottles

2 bottles for equilibrium 2 bottles ready for aspirating Bottom piercing to eliminate contamination

Manipulator 1

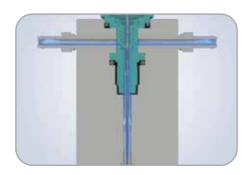
Moving cuvettes for dispensing Intelligent cuvette detection

Reliable Results



Enhanced Reaction System

- Non-touch vortexer mixing for reaction solution without any contamination
- Precisely controlled temperature for magnetic separation, incubation & reaction by maintenance free direct-solid heating technology
- Reliable clinical performance with enhanced PMT chemiluminescent detection system



Efficient Washing System

- Interior & exterior probe washing with high pressure pre-heated water
- Programmed enhanced washing with detergent for reagent and sample probes
- 4-phase washing for magnetic separation unit with high efficiency

Stable Reagent Cartridges Utility

- 2°C~8°C constant cooling compartment for reagents cartridges
- Membrane sealed liquid reagent ready-to-use
- Intelligent magnetic particles mixing by reagent carousel rotation



Intelligent Indication for Daily Operation

- Real-time indication of cuvettes, waste and wash buffer status
- Real-time monitoring for substrates consumption
- Easy operation for replacing cuvettes, wash buffer and placing new substrates



Advanced Software



User-friendly Interface

- Unified platform of BS-2000M series, BS-800M series, BS-480 and future system
- Real-time status monitoring for analytical unit, SDM and carousels
- Intelligent distribution for STAT samples



Real-time QC Status Monitoring

- Westgard Rules and Two-Control Evaluation check
- Levey-Jennings chart and Twin-Plot chart for review
- Real-time alarm and locating when QC result(s) is out of range
- Auto QC setup capability

Traceable Test Results

- Reagent, calibrator and control information can be recalled from archive history
- Intuitive software design, easy to trace results



Reflex and Re-run Function

 Pre-defined reflex and Re-run assays will be performed automatically when preset criteria is met





Test Summary Function

- Test summary during certain period, including calibration, QC, Sample, valid tests and rerun tests
- Facilitate to computation of total test costs within a defined period
- The summary can be archived into excel files or printed to review and backup



Step-by-step Maintenance Guide

- Scheduled maintenance and maintenance guide for analytical unit
- Ensure performance reliability and reduce unnecessary service calls
- Error report transferrable to service engineers for immediate troubleshooting which can minimize instrument downtime

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Technical Specifications

General Information Magnetic Separation Unit
Throughput Up to 240 tests/hour Separation Assembly

Measurement Principle 4-phase magnetic separation

Micron superparamagnetic particles platform

reagents and AMPPD substrate

protection

with alkaline phosphatase (ALP) labeled

Temperature

Measurement and Reaction System

Accuracy: 37±0.3°C, fluctuation: ±0.1°C

Sample Assembly

Detection Mode Photon counting

PMT Calibration LED reference module

Sample Feeder Rack system with Sample Delivery Module Signal Detector Photomultiplier (PMT) photon counter

Up to 300 onboard samples with 30 racks Reaction Disk 150 positions

Sample Probe Steel probe, liquid level detection, clot Temperature Accuracy: 37±0.3°C, Fluctuation: ±0.1°C

detection, horizontal and vertical collision Mixing Unit Non-touch vortexer mixing

Sample Volume 10μ l~200 μ l, with increment of 1μ l Cuvette Loading and Waste Collection Sample Dilution Automatic dilution with 1:2 ~ 1:40 Cuvette Disposable plastic cuvettes

Cuvette Loading Trays continuous loading and offloading, 126

Reagent Assembly cuvettes per tray, up to 9 trays (1134 cuvettes) can

Reagent Disk 36 reagent positions, continuous loading, be loaded in one batch

real-time mixing for magnetic particles Waste Collection 2 waste boxes, overflow detection

Cooling System 2°C~8°C

Reagent Barcode Automatic scanning Working Conditions

Reagent Probe Steel probe, liquid level detection, bubble Power Supply 110V/115V~, 60Hz; 220V-240V~, 50Hz;

detection, horizontal and vertical collision 220V/230V~, 60Hz

protection Input Power 3200VA
Reagent Volume 20μ1~135μl, with increment of 1μl Operating Temperature 15°C~30°C

Relative Humidity 35%RH~80%RH, without condensation

Substrate System Dimension Main Unit: 1450mm*1020mm*1200mm (W*D*H)

Substrate Bottle 500 tests per bottle, bottom piercing SDM: 710mm*1020mm*1200mm (W*D*H)
Substrate Loading Capable of continuous loading during testing Total: 2150mm*1020mm*1200mm (W*D*H))

Substrate Heating Constant heating Weight: 750kg
Aspiration Volume 200µl Altitude Height -400m~2000m

(optional external compressor for 2000m~4000m)

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