

# CL-1000i Technical Specifications

General Information		Magnetic Separation Unit	
Throughput	Up to 120 tests/hour	Separation Assembly	4-phase magnetic separation
Measurement Principle	Micron superparamagnetic particles platform with alkaline phosphatase (ALP) labeled reagents and AMPPD substrate	Temperature	Accuracy: 37±0.3°C, fluctuation: ±0.2°C
Sample Assembly		Measurement and Reaction System	
Sample Feeder	Continuous sample loading and off loading by sample racks	Detection Mode	Photon counting
Sample Rack	10 positions per rack	Signal Detector	Photomultiplier (PMT) photon counter
Sample Capacity	Up to 60 samples in one batch	PMT Calibration	LED reference module
Sample Probe	Steel probe, liquid level detection, clot detection, horizontal and vertical collision protection	Reaction Carousel	75 positions
Sample Volume	10µl-200µl, with increment of 1µl	Temperature	Accuracy: 37±0.3°C, fluctuation: ±0.2°C
Sample Dilution	Automatic dilution with 1:2 ~ 1:80	Mixing Unit	Non-touch vortexer mixing
Reagent Assembly		Cuvette Loading and Waste Collection	
Reagent Disk	25 reagent positions, continuous loading, real-time mixing for magnetic particles	Cuvette	Disposable plastic cuvette
Cooling System	2°C-8°C	Cuvette Loading	88 cuvettes per tray, two trays can be loaded in one batch, continuous loading and offloading
Reagent Pack	50 tests per pack, 100 tests per pack	Waste Collection	Waste container, 185 cuvettes per box
Reagent Scanning	Built-in/external bar code reader scanning	Power Supply	110V/115V~, 60Hz; 220V-240V~, 50Hz; 220V/230V~, 60Hz
Reagent Probe	Steel probe, liquid level detection, bubble detection, horizontal and vertical collision protection	Input Power	2000VA
Reagent Volume	20µl-200µl, with increment of 1µl	Operating Temperature	15°C-30°C
Substrate System		Relative Humidity	35%RH-80%RH, without condensation
Substrate Bottle	300/500 tests per bottle, bottom piercing	Dimension Main Unit:	1400mm*760mm*600mm (W*D*H)
Substrate Loading	Capable of continuous loading during testing	Weight:	250kg
Substrate Heating	Constant heating	Altitude Height	-400m-4000m
Aspiration Volume	200µl		

# CL-1000i Chemiluminescence Immunoassay System

A robust and fully capable, benchtop analyzer offering high performance.



# CL-1000i

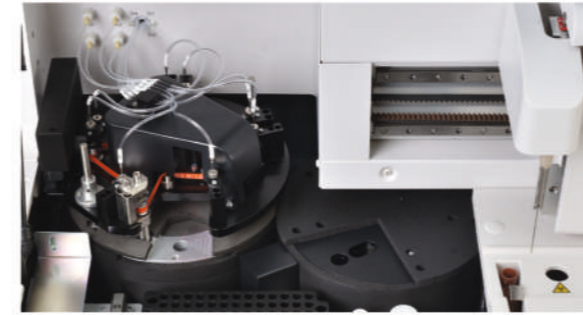


CL-1000i is a robust and simple-to-use chemiluminescence analyzer with a throughput of up to 120 tests per hour. In a compact benchtop package, it has a large onboard capacity of 25 reagents and 60 samples, and supports non-stop refill of samples, reagents and consumables during testing. By integrating the reliable CLIA technology with latest electrical and software improvement, CL-1000i enables easy operation and brings confident diagnosis faster than ever.

## TEST MENU

Thyroid	Fertility	Metabolic	Infectious Disease	Cardiac	Liver fibrosis	Tumor Marker
FT3	Total β - HCG	Intact PTH	HBsAg *	CK-MB	LN *	CEA
FT4	FSH	Calcitonin	Anti-HBs *	Myoglobin	HA *	AFP
T3	LH	Vitamin D total	HBeAg *	Troponin I	PIIINP *	CA125
T4	Prolactin	Ferritin	Anti-HBe *	BNP	C IV *	CA15-3
TSH	E2	Vitamin B12	Anti-HBc *	Angiotension I *		CA19-9
Anti-TG	E3	Folate	HIV combo *	Angiotension II *		FPSA
Anti-TPO	TESTO	RBC Folate	Anti-HCV *	Renin *		TPSA
Thyroglobulin (TG)	PROG		Anti-TP	Aldosterone *		NSE
TRAB *	Free testosterone *		Anti-HBc IgM *			CYFRA 21-1
rT3 *	17-OH PROG *		HBeAg* quantitative *			CA72-4
	SHBG *					ProGRP *
						PG I *
						PG II *
Down's screening	Growth hormone	Diabetes	Inflammation	Others		SCCA *
PAPP-A *	hGH *	Insulin	PCT *	ACTH		HE4 *
Free β-HCG *	IGF-1 *	C-peptide		DHEA-S		CA242 *
	AMH *			Cortisol		CA50 *

\* To be launched  
 CE Pending



### Enhanced reaction system

- 4-phase magnetic separation with precisely controlled temperature.
- Consistent performance reliability with enhanced PMT detection system.
- Non-touch vortexer mixing for reaction solution without any contamination.



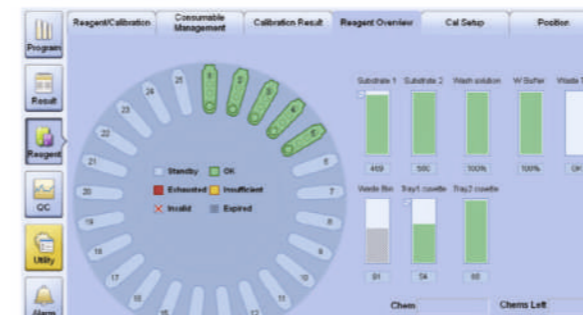
### Sample and reagent probe

- Precisely controlled syringe motors offer high precision aspiration.
- Intelligent liquid level detection, clot detection, vertical and horizontal collision protection.
- Efficient interior & exterior probe wash with high pressure wash buffer.
- Programmable enhanced probe wash with detergent.



### Sample handling

- Samples loading and offloading continuously by sample racks.
- Unified sample racks with detachable adaptor.
- Rack status real-time indication on lane numbers.
- STATs prioritized fast



### Intuitive software interface

- Unified software interface, significantly reduces training effort.
- Smooth interchange by intuitive software navigation.
- Easy to access touch screen monitor with swing arm (optional).



### Consumable management

- Random access for cuvette loading ; No need to pause or stop measurements.
- 88\*2 cuvettes in one batch, 200 cuvettes per waste bag.
- Cuvettes & waste bag status real-time indication.



### Reagent and substrate handling

- Easy handling of reagent & substrate, liquid stable ready to use reagents.
- 25 refrigerated Reagent Carousel positions (2 - 8°C)
- Reagent pack size : 50 tests/100 tests per pack.
- Long on board reagents stability for up to 56 days.