

CL-8000i

Technical Specifications

General Information

Throughput	Up to 500 tests/hour
Measurement Principle	Micron superparamagnetic particles platform With alkaline phosphatase (ALP) labeled reagents and AMPPD

Sample Assembly

Sample Feeder	Continuous sample loading and offloading by sample racks
Sample positions	Up to 60 racks in the instrument

Quick channel for emergent samples

Sample Probe	Steel probe, liquid level detection, clot detection, horizontal and vertical collision protection
Sample Volume	10~200ul, with increment of 1ul
Sample Dilution	Automatic dilution with 1:2~1:80

Reagent Assembly

Reagent Disk	36 reagent positions, continuous loading, real-time mixing for magnetic particles
Cooling System	2~8 °C
Reagent Pack	50 tests/pack, 100 tests/pack
Reagent Scanning	Built-in/External bar code reader
Reagent Probe	Steel probe, liquid level detection, clot detection, horizontal and vertical collision protection
Reagent Volume	10~200ul, with increment of 1ul

Substrate System

Substrate Bottle	300/500 tests per bottle
Substrate Loading	Capable of continuous loading during testing

Dispersion System

Separation Assembly	4-phase magnetic separation
Temperature Accuracy	37±0.3 °C

Measurement and Reaction System

Detection Mode	Photon counting
Signal Detector	Photomultiplier (PMT) photo counter
PMT Calibration	LED reference module
Temperature	Accuracy: 37±0.1 °C
Incubation Positions	212
Mixing Unit	Non-touch vortexer mixing Ultrasound mixing
Cuvette	Disposable plastic cuvette
Cuvette Loading	Continuous loading and offloading

Working conditions

Dimension	Single module: 1455mm×1150mm×1180mm(WxDxH)
	Double module: 2910mm×1150mm×1180mm (WxDxH)
	SDM module: 850mm×1150mm×1000mm (WxDxH)
Weight	789KG
Noise	<65dBA
Altitude Height	-400~4000m

Expandability

Can be integrated with BS-2800M and CL-8000i
Can be incorporated into TLA

CL-8000i

Chemiluminescence Immunoassay Analyzer

More Than Fast



CL-8000i

Chemiluminescence Immunoassay Analyzer

More Than Fast

Mindray strives to provide quality and efficient automation solutions that meet customers' needs. With the continuous R&D efforts, Mindray has launched a new generation of chemiluminescence immunoassay analyzer - CL-8000i.

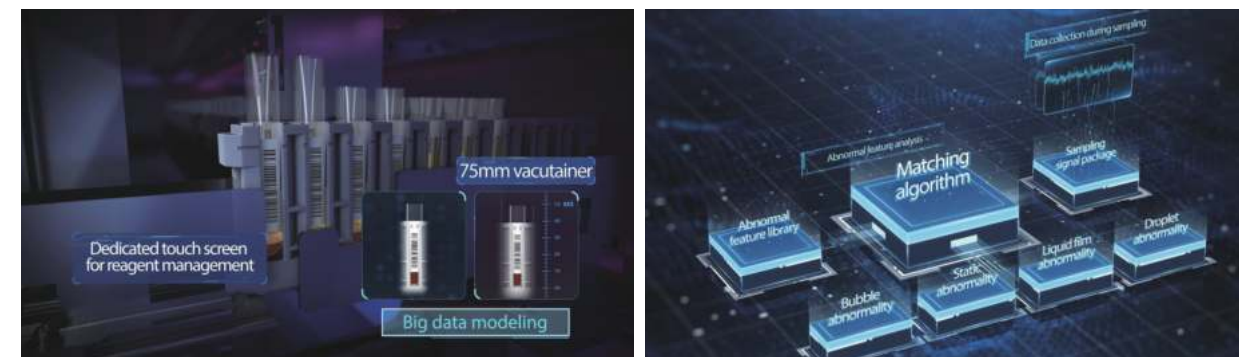
CL-8000i is a high-throughput analyzer with a sample capacity of up to 500T/H. It can also be integrated into two modules (100T/H). Advance technologies such as VU-Mix (Vortex+ Ultrasound Mix) and FS-sampling (Full Scene Sampling) are adopted in the analyzer to ensure its stability and accuracy. The specially designed touch screen for reagent management and the patented lock screen design help to improve the working efficiency and better meet laboratories' needs.



 500T/H, double modules available



Fast because of Stability



VU-Mix (Vortex+ Ultrasound Mix)

To minimize the interference of fibrin, CL-8000i adopts vortex-ultrasound mixing to remove fibrin conjugates.



FS-sampling (Full Scene Sampling)



FS-Sampling can identify sample containers based on databases and algorithms, improving the accuracy of sample aspiration.



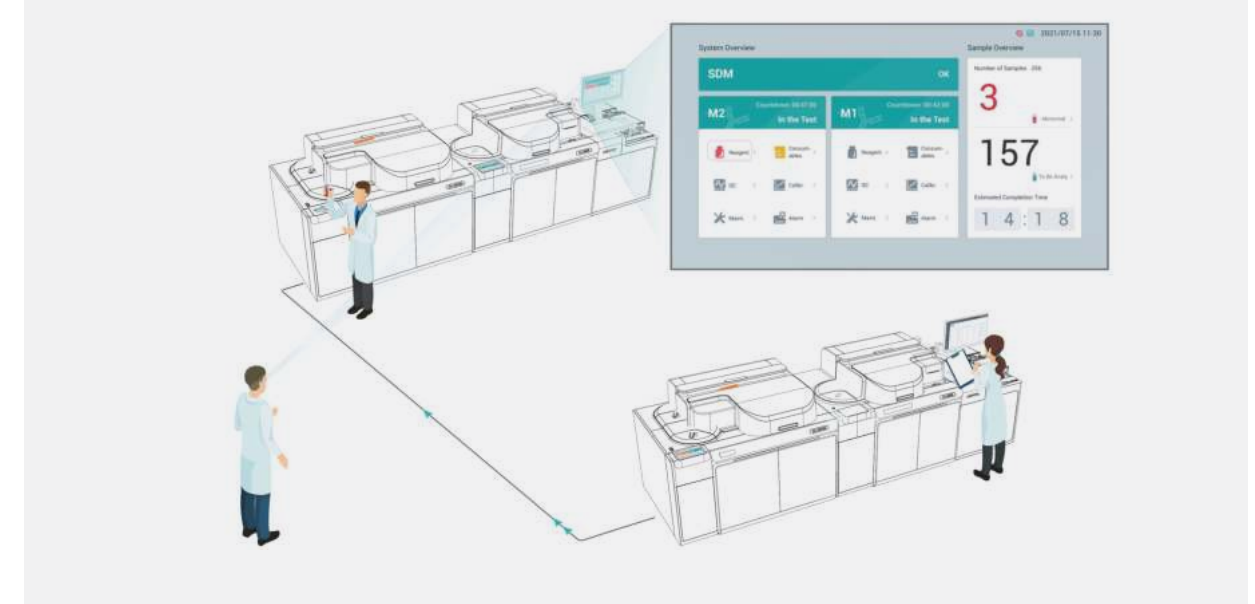
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Fast because of Intelligence

— Intelligent prediction of reagents and consumables helps to optimize the workflow with users in mind



— Patented lock-screen design allows real-time monitoring of analyzer operation



— A quick channel is available to ensure first priority is given to handling emergency samples



Fast because of Efficiency



2~8°C refrigerated reagent carousel that features 36 positions



Fully automated maintenance



Up to 600 samples can be loaded and offloaded continuously



Ready-to-use calibrators and controls



Ultrasonic washing



Uniquely designed buffer disk to reduce cuvette jam



IF Design Award 2021



reddot winner 2021

reddot winner 2021



Expandability



CL-8000i



CL-8000i M2



BS-2800M+CL-8000i



Test menu

Thyroid	Infectious Disease	Fertility	Tumor marker	Bone Metabolic	Cardiac
<ul style="list-style-type: none"> FT3 FT4 T3 T4 TSH Anti-Tg Anti-TPO Tg rT3 TRAb 	<ul style="list-style-type: none"> HIV Combo HBsAg Anti-HBs HBeAg Anti-HBe Anti-HBc Anti-HCV** Anti-TP (Syphilis) HAV IgM* 	<ul style="list-style-type: none"> Total β-HCG FSH LH Prolactin Estradiol Estriol TESTO PROG AMH Free testosterone* 17-OH PROG* SHBG* 	<ul style="list-style-type: none"> CEA AFP CA125 CA15-3 CA19-9 Free PSA Total PSA NSE CYFRA 21-1 CA72-4 PG I PG II SCCA HE4 ProGRP CA50 CA242 PIVKA-II* AFP-L3%* Hp IgG* G-17* 	<ul style="list-style-type: none"> Intact PTH Calcitonin Vitamin D total 	<ul style="list-style-type: none"> CK-MB Myoglobin Troponin I BNP NT-proBNP*
Diabetes	Adrenal Function	Liver Fibrosis	COVID-19	ToRCH	Growth Hormone
<ul style="list-style-type: none"> DM Insulin C-peptide 	<ul style="list-style-type: none"> DHEA-S Cortisol ACTH 	<ul style="list-style-type: none"> Laminin Hyaluronic Acid PIIINP Collagen IV 	<ul style="list-style-type: none"> SARS-COV-2 IgG SARS-COV-2 IgM SARS-COV-2S-RBD IgG SARS-COV-2 Neutralizing Antibody 	<ul style="list-style-type: none"> Toxo IgG Toxo IgM Rubella IgG Rubella IgM CMV IgG CMV IgM HSV-1/2 IgG* HSV-1/2 IgM* HSV-1 IgG* HSV-2 IgG* 	<ul style="list-style-type: none"> GH* IGF-1*
Anemia	Hypertension	Inflammation	DS Screening		
<ul style="list-style-type: none"> Ferritin Vitamin B12 Folate RBC Folate 	<ul style="list-style-type: none"> Renin Aldosterone 	<ul style="list-style-type: none"> Procalcitonin IL-6 sCD14-ST 	<ul style="list-style-type: none"> PAPP-A* Free β-HCG* 		

*: Under development
 **: Non-CE