MAGLUMI® 4000 Plus

Fully Automatic Chemiluminescence Immunoassay (CLIA) System

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Outstanding Technologies

CLIA uses two important technologies, one is labelling technology which determines reaction mode, and the other is separation technology which determines the sensitivity, accuracy and precision of the reagents.

ABEI Labelling Technology

Two types of labelling technologies are commonly used. One is enzyme label and the other is non-enzyme small molecule label. Enzyme label reagents are not so stable and are easily affected by the change of storage conditions. **MAGLUMI®** system applies ABEI labels. ABEI is a non-enzyme small molecule with special molecular formula to enhance stability in acid and alkaline solutions. The chemical reaction process of ABEI with sodium hydroxide (NaOH) and hyperoxide (H_2O_2) finishes in 3 seconds.

Magnetic Microbeads Separation Technology

MAGLUMI® uses magnetic microbeads. As a separation technology, it has been widely used in the field of CLIA. Compared with traditional separation technologies, it has the following advantages:

● Shortening the reaction time by enlarging the reaction area of antigens and antibodies.

● Enhancing the sensitivity by better and faster capturing of antigens and antibodies.

● Reducing inter or intra-assay discrepancies significantly by mixing the reagents thoroughly in a liquid separation platform.

Advantages of MAGLUMI® 4000 Plus

- For labs and hospitals with high throughput, simple and smart operation with Modular design and humanized appearance

- Broad test menu to meet different needs and it is expanding according to your requirement

- Free quality control and calibrators help to reduce the cost per test

- Quality guaranteed by the third party quality control and external quality assessment (EQA)

- Key technologies of ABEI and magnetic microbeads enhance stability and sensitivity of **MAGLUMI®** reagents
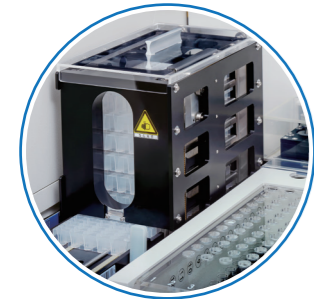

160cm

138cm

89cm
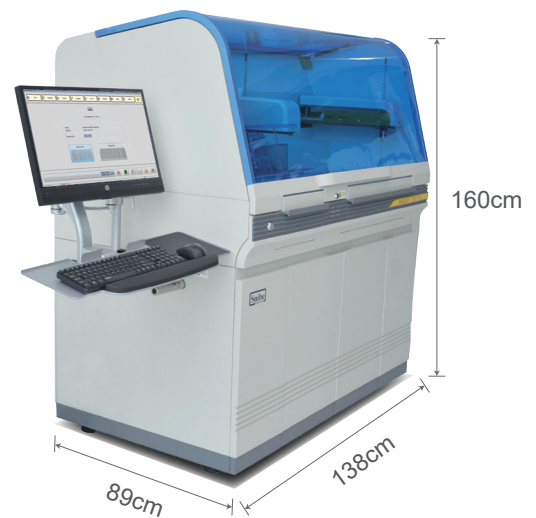
Pipettor

- Aspirate reagent / sample with high speed
- Titanium needle with crush-proof function
- Clot detection & liquid level detection
- Teflon coated for carry-over prevention
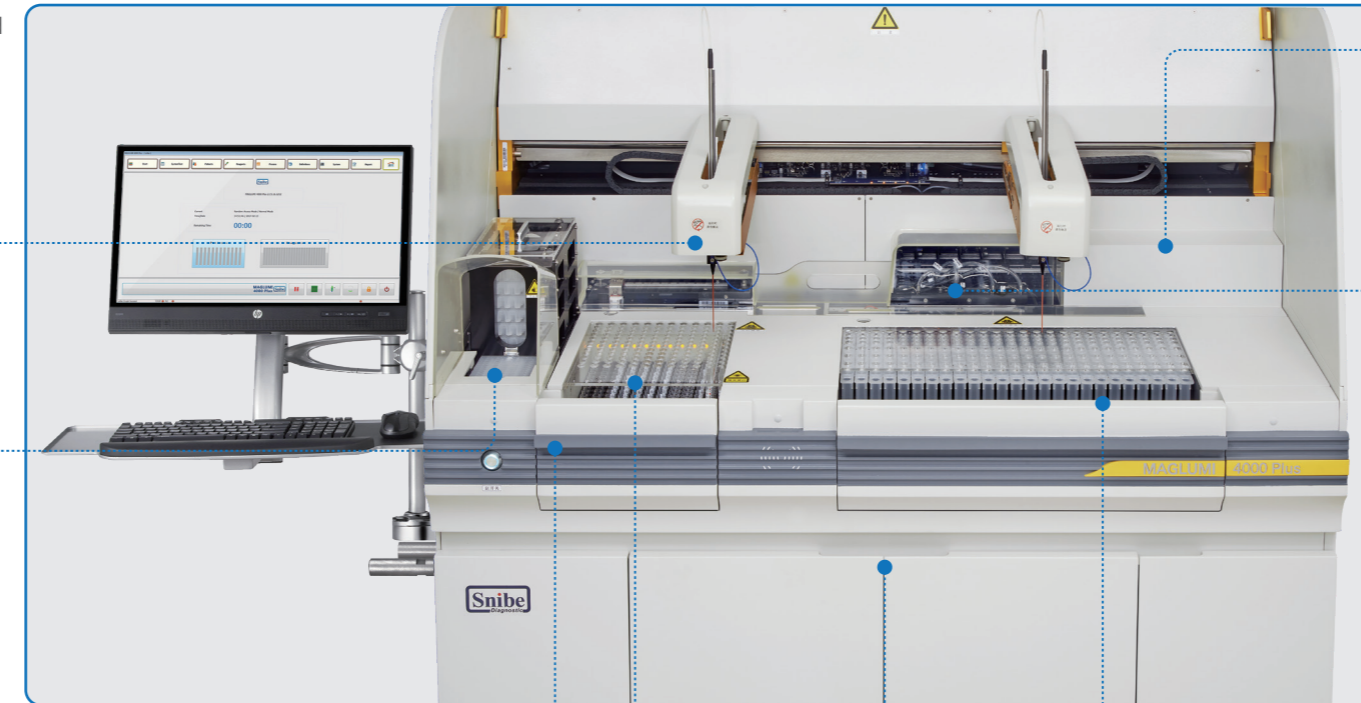- Inner & external washing

Automated cuvette loader

- Capable of loading reaction modules continuously
- Up to 160 reaction modules, 960 tests
- Walk away time around 3.5 hours

Pneumatic spring

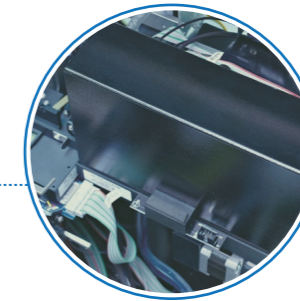- Sample area door and reagent area door are equipped with damping brace, providing good user experience.

Sample area

- 144 positions with barcode reader, can be extended to 280 positions
- Continuous loading & cooling function
- Random access, Batch and Emergency mode

Measuring Unit

- High-sensitivity and low-noise photo multiplier tube (PMT)
- Cuvette detection and anti-overflow

Modular Expanding Flexibility

- Capable to integrated several modulars including Snibe immunoassay, biochemistry and ISE modular
- Capable to link with Laboratory Automation system (TLA/LAS)
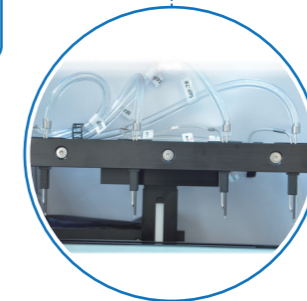
Patented Washer design

- Powerful washer with anti-overflow function
- Intelligent magnetic field design ensure good separation
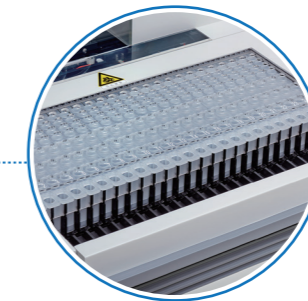
Reagent area

- Cooling function ensures reagent stability
- 25 reagents on board, with continuous loading function
- RFID label storing reagent information
- Easy and fast adding and updating

Convenient consumables placement

- Well designed drawer tray contribute to conveniently replace: wash liquid, waste liquid, starter 1, starter 2, waste cuvettes

Operation Software

Start	SystemTest	Patients	Reagents	Process	Definitions	System	Report

Snibe

MAGLUMI 4000 Plus 2.15.16.1212

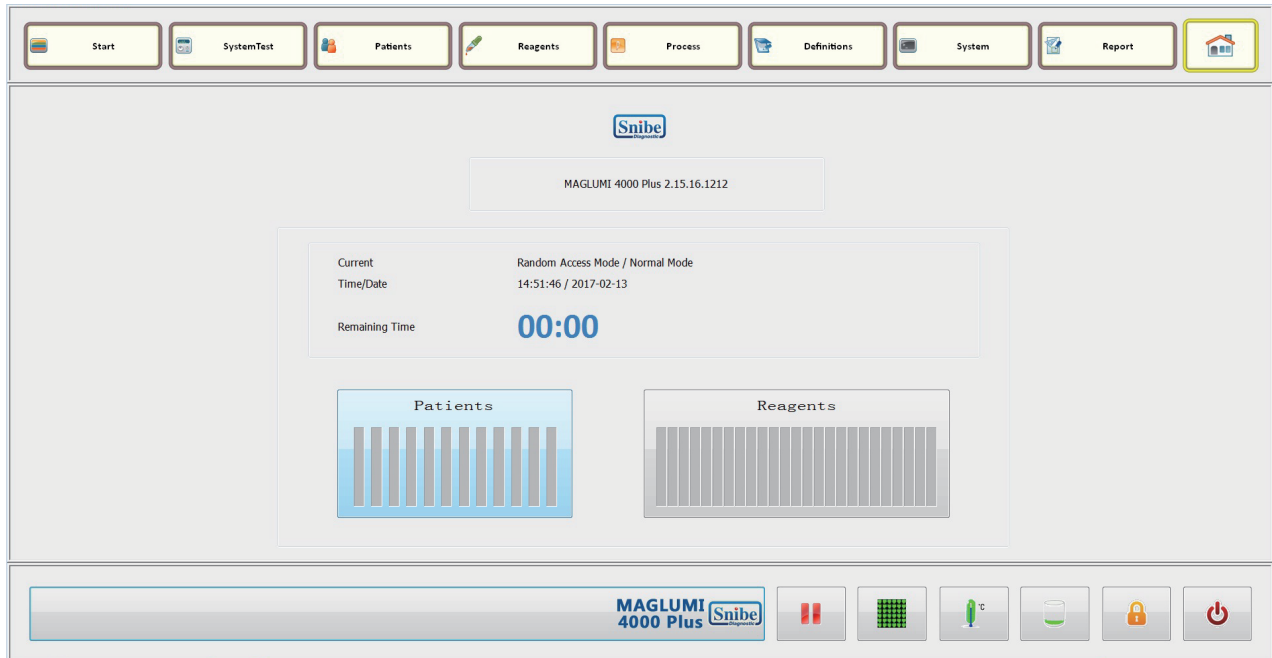|	
Current	Random Access Mode / Normal Mode
Time/Date	14:51:46 / 2017-02-13
Remaining Time	**00:00**

Patients

Reagents

MAGLUMI 4000 Plus Snibe

Comprehensive Software

- User-friendly interface
- Real-time status monitoring for each test
- Monitoring reagent and consumable status
- Intelligent alarm function
- Multilingual support, 10 kinds of languages more languages available by request

Maintenance Guide

- Smart Maintenance with step by step guide, ensure performance reliability and reduce unnecessary service calls
- Daily, weekly and monthly maintenance guide for analyer

Quality Control

- Westgard rules and Levey-Jennings chart for both internal and external quality control

Test Summary Function

- Test summary including system test, calibration, QC, statistics of samples, valid tests and rerun tests
- Search and review test information conveniently

Pre or Post Defined Dilution Function

- Pre- and post- dilution available for the case of high concentration sample

Bidirectional LIS Connection

- Bidirectional LIS connection by TCP/IP and COM

Broad CLIA Test Menu with More Than 200 Assays

Thyroid

TSH (3rd Generation) FDA	FT3 FDA	TRAb
T4 FDA	Tg (Thyroglobulin)	TMA
T3 FDA	TGA (Anti-Tg)	Rev T3
FT4 FDA	Anti-TPO	T-Uptake

Bone Metabolism

Calcitonin	25-OH Vitamin D FDA	β-CTx
Osteocalcin	Intact PTH	total P1NP
*PTH (1-84)		

Hepatic Fibrosis

HA	C IV	Cholyglycine
PIIIP N-P	Laminin	GP73

Immunoglobulins

IgM	IgA	IgE	IgG

Glyco Metabolism

C-Peptide	Anti-IA2	Proinsulin
Insulin	ICA	*Glucagon
GAD 65	IAA (Anti Insulin)	*Anti-ZnT8

Tumor Markers

AFP	PAP	SCCA
CEA	CA 50	TPA-snibe
Total PSA	CYFRA 21-1	ProGRP
f-PSA	CA 242	HE4
CA 125	CA 72-4	HER-2
CA 15-3	NSE	PIVKA-II
CA 19-9	S-100	*AFP-L3%

Anemia

Vitamin B12	EPO	*Anti-Intrinsic Factor
Ferritin	RBC Folate	*Active B12
Folate (FA)		

Hypertension

Direct Renin	Angiotensin I	Cortisol
Aldosterone	Angiotensin II	ACTH

Fertility

FSH	free Testosterone	SHBG
LH	DHEA-S	Androstenedione
HCG/β-HCG FDA	Progesterone	PlGF
PRL (Prolactin)	free Estriol	sFlt-1
Estradiol	17-OH Progesterone	*Inhibin A
Testosterone	AMH	*Inhibin B

Infectious Disease

Respiratory	Hepatitis	Others
2019-nCoV IgG	HBsAg	HIV Ab/Ag Combi
2019-nCoV IgM	Anti-HBs	Syphilis
SARS-CoV-2 S-RBD IgG	HBeAg	Chagas
SARS-CoV-2 Neutralizing Antibody	Anti-HBe	HTLV I+II
SARS-CoV-2 Ag	Anti-HBc	*H.pylori* IgG
Mycoplasma pneumoniae IgG	Anti-HBc IgM	*H.pylori* IgA
Mycoplasma pneumoniae IgM	Anti-HCV	*H.pylori* IgM
Chlamydia pneumoniae IgG	Anti-HAV	**H.pylori* Ag
Chlamydia pneumoniae IgM	HAV IgM	Dengue Virus IgG
*Respiratory Syncytial Virus IgM	*HBV Pre-S1 Ag	Dengue Virus NS1
*Coxsackievirus B IgM	*HEV IgG	*Dengue Virus IgM
*Adenovirus IgM	*HEV IgM	Monkeypox Virus Ag
*Influenza A Virus IgM		
*Influenza B Virus IgM		
*Legionella pneumophila IgM		
*Human Parainfluenza Virus IgM		

TORCH

Toxo IgG	CMV IgM	*HSV-1 IgM
Toxo IgM	HSV-1/2 IgG	*HSV-2 IgM
Rubella IgG	HSV-1/2 IgM	*Toxo IgG Avidity
Rubella IgM	HSV-1 IgG	*CMV IgG Avidity
CMV IgG	HSV-2 IgG	

EBV

EBV VCA IgG	EBV EA IgG	EBV NA IgG
EBV VCA IgM	EBV EA IgA	EBV NA IgA
EBV VCA IgA		

Prenatal Screening

AFP (Prenatal Screening)	free β-HCG	*Inhibin A
free Estriol	PAPP-A	

Cardiac

CK-MB	H-FABP	Lp-PLA2
Troponin I	NT-proBNP	MPO
Myoglobin	BNP	HCY
hs-cTnI	D-Dimer	*sST2
hs-CRP		

Autoimmune

Verfügbar ab 01. Oktober 2024

Inflammation Monitoring

CRP	IL-6 (Interleukin 6)
PCT (Procalcitonin)	SAA (Serum Amyloid A)
TNF-α	*VEGF

Metabolism

Pepsinogen I	Gastrin-17	IGF-I
Pepsinogen II	GH (hGH)	IGFBP-3

Kidney Function

$β_2$-MG	Albumin	*NGAL

Drug Monitoring

Digoxin	CSA (Cyclosporine A)	FK 506 (Tacrolimus)

Coagulation Markers

D-Dimer	TM	tPAIC
TAT	PIC	*FDP

Veterinary Testing

cTSH	cTT4	vFT4

*Available soon

Technical Specifications

Reagent Feature	• Flash chemiluminescence label-ABEI, with high sensitivity and long stability • Superpara magnetic microbeads separation technology, fast and efficient
Main Features	• Throughput: up to 280 tests/hour • 24 hours ready to use • Time to first result: 16 minutes
Modes of Operation	• Random Access, Batch and Emergency mode
Sample Loading	• Up to 144 sample positions, can be extended to 280 • Continuous loading, STAT available • Barcode reader recognition or analyzer automatic numbered • LIS connection, automatic read sample information • Refrigerated sample area with independent power supply
Reagent Loading	• 25 reagent positions on board • Continuous loading • RFID reading all info of reagent • Refrigerated reagent area with independent power supply
Reagent Integral	• Ready-to-use, no pretreatment required • Buildit-in calibrators • RFID tag storing all info of reagent • RFID tag with built-in master curve • 10 points master curve, 2 points calibration • Calibration stability: Max 4 weeks
Other Features	• Clot detection • Liquid level detection • Automatic dilution with optional ratio for High concentration sample • Constant 36.8 ± 0.5°C incubation • Reflex tests with editable ranges
Operation System	• Windows 7, Windows 10 • Color screen
Interconnection	• Bidirectional LIS connection by TCP/IP and COM
Dimensions Weight	• Input: AC 110/230 Vac, 50/60 Hz，Max 900W • Dimension: 138cm×89cm×160cm（No monitor table） 　　　　　　　208cm×89cm×160cm（Monitor table extended） • Weight: 270kg

MAGLUMI® is a trademark of Snibe.
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Snibe
Diagnostic

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