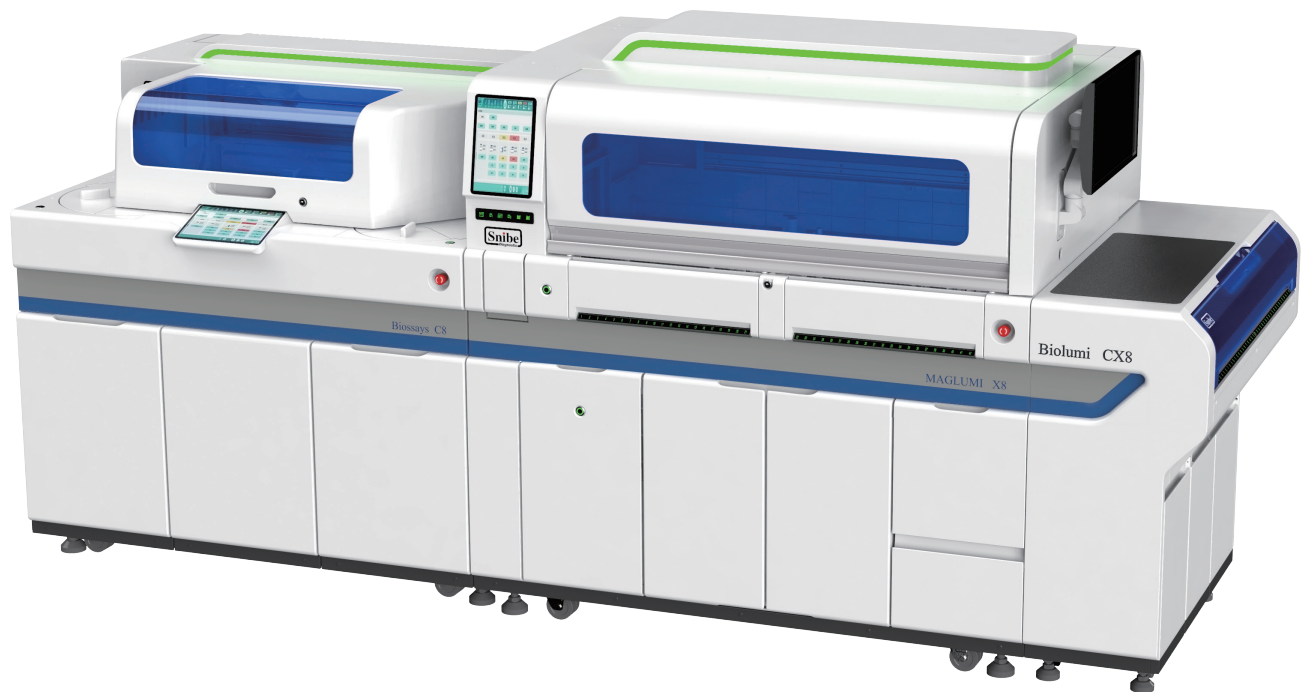


Biolumi[®] CX8

Integrated System



**Flexible & Compact System
Simplify Your Lab Operations**

Functional Modules



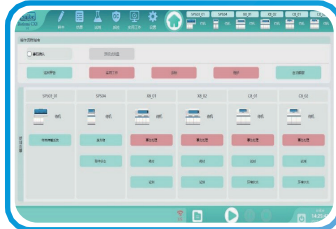
Multidimensional Indicator Lights

- Consumable indicators: confirming if the consumables remain sufficient
- Status indicator: Normal, Alarming or Error status will be shown in different colors



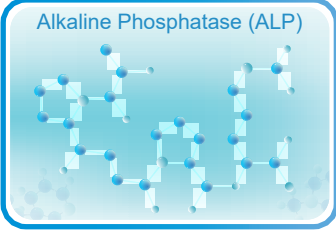
Built-in Operating Touchpad

- Real-time monitoring of reagents, consumables and waste
- Replacing reagents and consumables through the touch screen



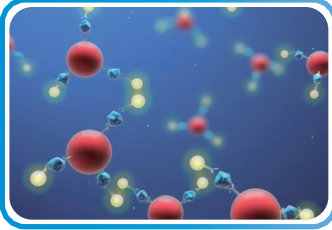
Intelligent Software

- Smart maintenance with step-by-step guidance
- Bidirectional LIS connection by TCP/IP or COM
- Result system including functions of viewing, searching, deleting, detail viewing, retesting, uploading to LIS, recalculating and printing



Biossays® C8 Module

- Throughput: 1600 T/H (BIO), 300 T/H (ISE)
- Bevel probe touches bottom to spit sample, ensuring the sampling accuracy of low-volume sample
- 10-step washing technology ensures thoroughly washing
- Full spiral mixing with adjustable speed
- Concave holographic grating post-splitting technology: high resolution and low stray light



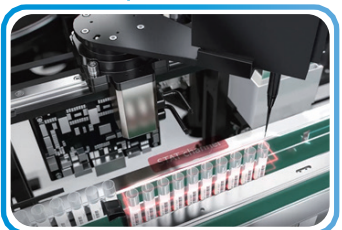
MAGLUMI® X8 Module

- Throughput: 600 T/H
- Up to 2800 walk-away tests
- No cross-contamination sampling and one pipetting for multiple tests technology
- 360° constant incubation technology
- 4-step high-efficiency washing unit
- Stable and accurate measurement



Decapper Module

- General throughput up to 400 T/H
- Safe operation with fully enclosed design
- UV irradiation in one-click, easy to operate
- Automatically decap and re-cap with the original tubes
- High throughput and space efficiency, suitable for different hospitals and laboratories



Sample Area

- 300 sample positions
- Supporting multiple sample types
- Storing and transporting samples
- Continuous loading, STAT position can be self-defined
- Indicator light shows sample status

Advantages of Biolumi® CX8



CONVENIENCE

- Intelligent consumable loading technology to reduce manual work
- Multiple built-in touchpads on each module offer easy operation
- Multidimensional indicator lights allow operators to check the status far away from the analyzer



RELIABILITY

- Proven magnetic microbeads separation and ABEI labeling techniques
- High-quality grating technology ensures stability and consistency
- Sample pipetting with disposal tips to avoid cross-contamination (Immunoassay)



EFFICIENCY

- Super high throughput to meet large-volume testing demands



Up to 600 tests/h
Immunoassay module



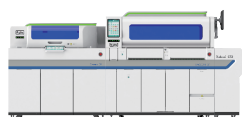
Up to 1600 tests/h
Biochemistry module

- Any sample position can be defined as STAT to process emergency samples efficiently
- Large number of reagent positions to deliver multiple tests in a single run



FLEXIBILITY

- Biolumi® CX8 Integrated System offers multiple configurations to meet diverse demands
- Decapper module configurable, no manual operation required
- Capable to link with Laboratory Automation system (TLA/LAS)



C8+X8			
	Biochemistry	Immunoassay	ISE
Throughput	1600 T/H	600 T/H	300 T/H
Dimension	326*118*150 cm		



C8*2 + X8*2			
	Biochemistry	Immunoassay	ISE
Throughput	3200 T/H	1200 T/H	600 T/H
Dimension	608*118*150 cm		



C8 + X8 +Decapper				
	Biochemistry	Immunoassay	ISE	Decapper
Throughput	1600 T/H	600 T/H	300 T/H	500 tubes/h (Decapping)
				400 tubes/h (Re-capping)
Dimension	385*118*150 cm			



C8*2 + X8*2 + Decapper				
	Biochemistry	Immunoassay	ISE	Decapper
Throughput	3200 T/H	1200 T/H	600 T/H	500 tubes/h (Decapping)
				400 tubes/h (Re-capping)
Dimension	666*118*150 cm			

One of the Broadest Test Menu

Immunoassay menu with 236 parameters:

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

Bone Metabolism		
Calcitonin	25-OH Vitamin D ADV	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)		

STAT-EX™		
*hs-cTnl STAT-EX™	*Myoglobin STAT-EX™	*PCT STAT-EX™
*NT-proBNP STAT-EX™	*D-Dimer STAT-EX™	*CRP STAT-EX™

Drug Monitoring		
Digoxin	CSA (Cyclosporine A)	FK 506 (Tacrolimus)

Veterinary Testing		
*cTSH	*cTT4	*vFT4

Fertility		
FSH	free Testosterone	SHBG
LH	DHEA-S	Androstenedione
HCG/β-HCG ADV	Progesterone	PIGF
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
<i>Mycoplasma Pneumoniae</i> IgG	Anti-HBc IgM	H.pylori IgA
<i>Mycoplasma Pneumoniae</i> IgM	Anti-HCV	H.pylori IgM
<i>Chlamydia Pneumoniae</i> IgG	Anti-HAV	*H.pylori Ag
<i>Chlamydia Pneumoniae</i> 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-2 IgM
Toxo IgM	HSV-1/2 IgG	*HSV-1 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		

Cardiac		
CK-MB	NT-proBNP	*sST2
Troponin I	BNP	*hs-cTnl STAT-EX™
Myoglobin	D-Dimer	*NT-proBNP STAT-EX™
hs-cTnl	Lp-PLA2	*Myoglobin STAT-EX™
hs-CRP	MPO	*D-Dimer STAT-EX™
H-FABP	HCY	

Autoimmune		
Connective Tissue Disease	Rheumatoid Arthritis	Endocrinology
ANA Screen	Anti-CCP	Anti-TPO
ENA Screen	*RF IgM	TGA (Anti-Tg)
Anti-dsDNA IgG	*RF IgG	TRAb
Anti-Sm IgG	*RF IgA	TMA
Anti-Rib-P IgG	*RF Screen	GAD 65
Anti-SS-B IgG		Anti-IA2
Anti-SS-A IgG		ICA
Anti-Jo-1 IgG	Celiac Disease	IAA (Anti Insulin)
Anti-Scl-70 IgG	Anti-tTG IgA	*Anti-ZnT8
Anti-Centromeres IgG	Anti-tTG IgG	
Anti-Histones IgG	DGP IgA	
Anti-nRNP/Sm IgG	DGP IgG	
*Anti-Ro-52 IgG		Vasculitis
*Anti-PM-Scl IgG	Autoimmune Liver Disease	Anti-MPO IgG
*Anti-Nucleosome IgG	Anti-M2-3E IgG	*Anti-PR3 IgG
		*Anti-GBM IgG
Antiphospholipid Syndrome		
Anti-Cardiolipin IgG	β2-Glycoprotein I IgG	
Anti-Cardiolipin IgM	β2-Glycoprotein I IgM	
*Anti-Cardiolipin IgA	*β2-Glycoprotein I IgA	
*Anti-Cardiolipin Screen	*β2-Glycoprotein I screen	

Inflammation Monitoring		
CRP	IL-6 (Interleukin 6)	*PCT STAT-EX™
PCT (Procalcitonin)	SAA (Serum Amyloid A)	*CRP STAT-EX™
TNF-α	*VEGF	

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

Coagulation Markers		
D-Dimer	TM	tPAIC
TAT	PIC	*FDP

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

Hypertension		
Direct Renin	Angiotensin I	Cortisol
Aldosterone	Angiotensin II	ACTH

Kidney Function		
β ₂ -MG	Albumin	*NGAL

*Available soon

Biochemistry menu with 84 parameters:

Cardiac
CK
CK-MB
α-HBDH
LDH
Hcy
LDH1
*D-Dimer
*ACE
*IMA
*MYO

Diabetes
GLU
LAC
HbA1c
GSP
D3H
GA

Pancreatic
α-AMY
LIP

Hepatic
TBA
ALT (SGPT)
AST (SGOT)
ALP
GGT
TBIL (Vanadate)
DBIL (Vanadate)
TP
ALB
Ammonia (AMM)
PA
CHE
AFU
5'-NT
Haptoglobin (HPT)
*TBIL (DPD)
*DBIL (DCA)
*CG (Latex)
*CG (CEDIA)
*GLDH
*ADA
*CER
*LAP
*GR

Lipids
HDL-C
LDL-C
TC
TG
ApoE
ApoA1
ApoB
Lp (a)
NEFA

Renal
Cr (CREA)
Uric Acid (UA)
Urea
Cys-C
α1-MG
β2-MG
mALB
Urine / CSF Protein
RBP
NAG

Inorganic Ion
Ca (OCPC)
P (PHOS)
Mg
*Ca (Arsenazo III)
*CO2

Anemia
Transferrin (TRF)
Iron
UIBC
*G6PD
*Ferritin

Rheumatism
ASO
RF

Immune
IgM
IgA
IgG
*C3
*C4

ISE
Na ⁺
K ⁺
Cl ⁻
Ca ²⁺
pH

Inflammation
CRP (Full Range)

*Available soon

Technical Specifications

Sample Area	Sample type	Serum, Plasma, Whole blood, Urine, CSF
	Sample position	300
	Sample recognition	Barcode
Biochemistry Module	Throughput	1600 T/H
	Reaction cuvettes	362 cuvettes in total: 181 cuvettes each for two segments
	Reagent position	72 positions each for R1 and R2
	Sample volume	1.5 μ L ~ 25.0 μ L (0.1 μ L increments)
	Sample probe	Clot detection, liquid detection, collision detection and auto-clearing
	Reagent volume	20 μ L-250 μ L (1 μ L increments)
	Reagent probe	Liquid detection, collision detection and auto-clearing
	Reaction volume	80 μ L ~ 250 μ L
	Reaction time	10 min, 22 min
	Reaction temperature	37.0 $^{\circ}$ C $\pm$ 0.2 $^{\circ}$ C (with the fluctuation not greater than 0.1 $^{\circ}$ C)
	Light Source	12 V, 100 W halogen lamp
	Wavelength accuracy	13 fixed wavelengths (340,380, 405, 450, 480, 505, 546, 570,600, 660, 700, 750, 800 nm)
Immunoassay Module	Throughput	Up to 600 T/H
	Walk-away tests/time	2800 Tests
	Reagent position	42
	Sample volume	10 μ L ~ 280 μ L
	Sample probe	Liquid detection, clot detection, bubble detection, collision detection and volume tracking
	Reagent volume	10 μ L ~ 450 μ L
	Reagent probe	Auto-clearing, Liquid detection, collision detection and volume tracking
	Reagent area	Working temperature:8 $^{\circ}$ C ~ 12 $^{\circ}$ C Storage temperature: 2 $^{\circ}$ C ~ 8 $^{\circ}$ C
	Reaction cuvette number	2912/5824
	Reaction temperature	37.0 $^{\circ}$ C $\pm$ 0.3 $^{\circ}$ C (with the fluctuation not greater than 0.1 $^{\circ}$ C)
	Disposable tip number	576/1152
ISE Module	Sample volume	90 μ L
	Information recognition	RFID
	Reagent type	Calibrator A, Calibrator B
	Electrode type	K ⁺ , Na ⁺ , Cl ⁻ , iCa ²⁺ , pH, reference electrode

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