

MAGLUMI® X3

Fully-auto Chemiluminescence Immunoassay (CLIA) System



Save Your Space without Compromise

Powerful Performance and Compact Design

Compatible with Small and Medium-sized Hospitals and Labs

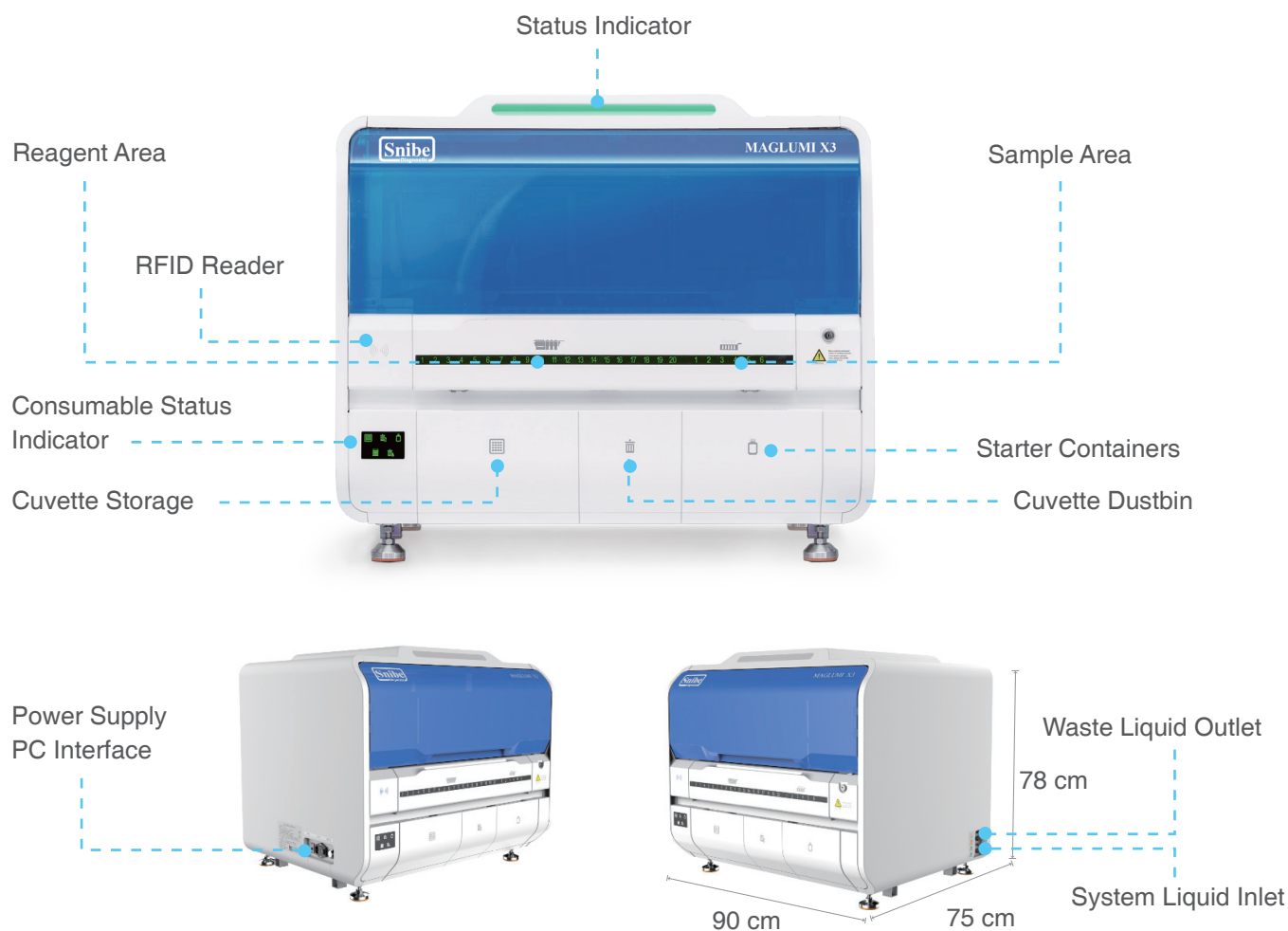


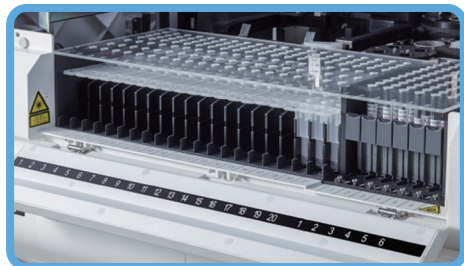
MAGLUMI® X3

Features & Benefits

- Small but powerful, the throughput is up to 200 tests/hour, and throughput per unit area is 294 T/h/m².
- Compatible with all **MAGLUMI®** reagents, one of the broadest automated CLIA test menus in the world (256 parameters).
- The latest intelligent washing technology and bidirectional temperature control measurement guarantee accurate and reliable results. The comprehensive advanced design of **MAGLUMI® X3** ensures excellent performance.
- Single reaction cup can avoid light pollution and increase cuvette utilization, its integrated packaging can avoid the stuck of the cuvette and destroying the cuvette wall.
- No-pause loading/unloading of reagents/samples/reaction cups without waiting or interrupting tests.

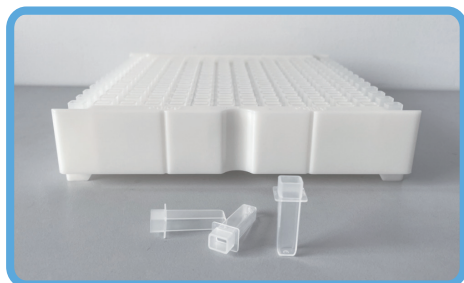
Functional Modules





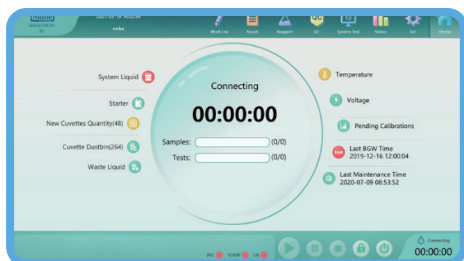
Reagent and Sample Loading

- 72 sample positions with barcode reader
- Sample in each position can be defined as STAT
- 20 reagent positions with RFID reader, 24h refrigerated at 10°C ($\pm 3^{\circ}\text{C}$)
- No-pause loading/unloading of reagents/samples/reaction cups without waiting or interrupting tests
- Reagent and sample indicator light available, real-time status monitoring, no need to check on the computer monitor



Single Reaction Cup with Integrated Packaging

- Single reaction cup can avoid light pollution and increase the cuvette utilization
- Single reaction cup with integrated packaging can avoid the stuck of the cuvette and destroying the cuvette wall



Intelligent UI Design

- New user-friendly UI design (Support multi-language)
- Real-time display for monitoring each test procedure, reagent, and consumable quantities, makes it convenient for the management
- Intelligent error recovery



Convenient Management of Analyzer Status

- Intuitive indicator light of reagent, sample, and consumable. No need to focus on the monitor, the status can be known by looking at the analyzer from a distance



All Balanced and Strong

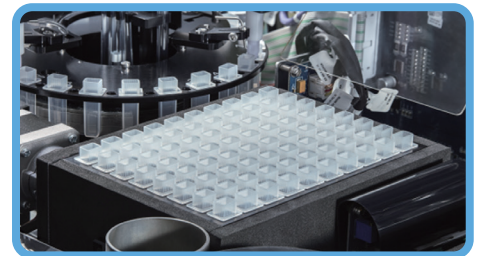
Accurate Pipetting Technology

- Single needle coated with TEFLON to avoid carry-over
- Independent washing unit for the needle, with different washing modes depending on different assays
- Pipetting detection technologies include liquid level, clot, and crash detection to ensure accurate pipetting



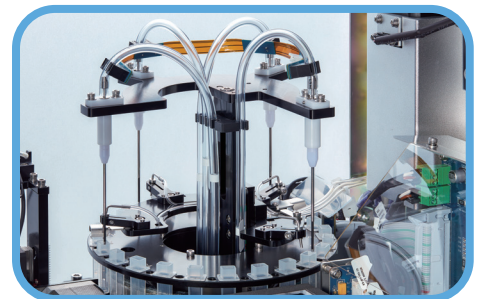
Accurate Incubation Technology

- Single reaction cup with five-sided heating at 37.0°C ($\pm 0.3^{\circ}\text{C}$), ensuring accurate, quick and uniform incubation
- Incubating 80 cuvettes simultaneously
- Non-contact mixing with different modes before incubation, ensuring sufficient reaction



High-Efficiency Washing Technology

- Magnetic separation washing with 4-step independent units and non-contact vortex mixing can reduce non-specific binding
- Different mixing modes depending on different assays, ensuring a sufficient washing to improve sensitivity



Stable and Accurate Measuring Chamber

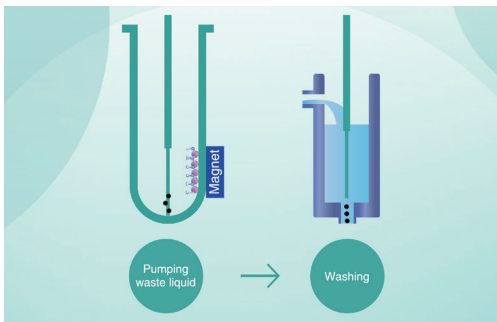
- ABEI-label exclusive proprietary technology
- PMT with heating and cooling function, ensuring the detection precision
- Independent measuring room, avoiding light cross-contamination





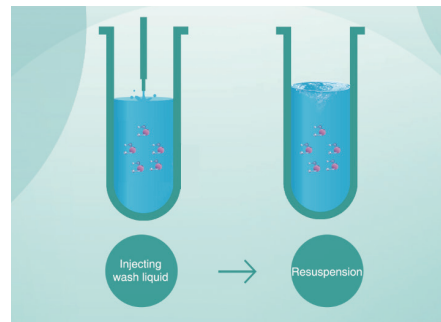
Exclusive Intelligent Washing Technology

Independent washing units for waste liquid needles



In the wash station, four waste liquid needles are equipped with four independent washing units to avoid the carry-over.

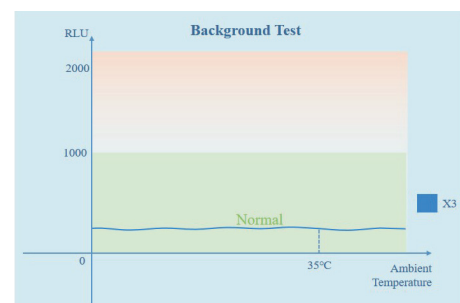
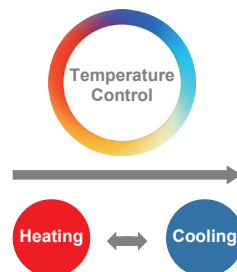
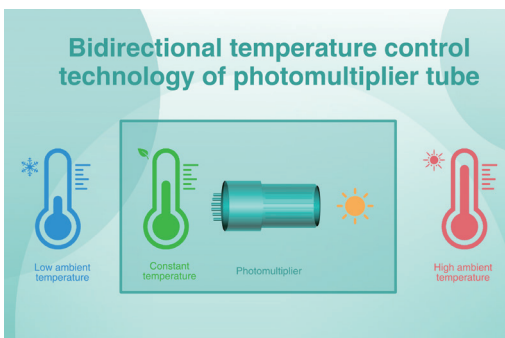
Magnetic separation washing and non-contact vortex mixing



Magnetic separation washing and non-contact vortex mixing units, with different mixing modes depending on different assays, ensure a sufficient washing to reduce the non-specific binding.

Stable and Accurate Measuring Chamber

Bidirectional temperature control technology of photomultiplier tube



Automatic temperature control in the measuring chamber can keep a stable background value, not affected by the ambient temperature, ensuring the accuracy of measurement results.



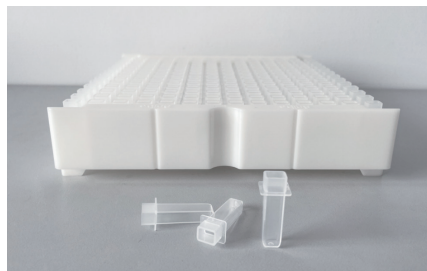
Top 10 Highlights of MAGLUMI® X3

- 1 One of the highest space efficiency CLIA analyzers combines one of the broadest automated CLIA test menus.
- 2 The throughput is up to 200 tests/hour (Throughput per unit area is 294 T/h/m²). No worry about the lack of laboratory space.
- 3 **MAGLUMI®** reagent kits (256 parameters) and consumables are compatible with **MAGLUMI® X3**.
- 4 The comprehensive advanced design of **MAGLUMI® X3** ensures excellent performance.
- 5 Single reaction cup can avoid light pollution and increase cuvette utilization, its integrated packaging can avoid the stuck of the cuvette and destroying the cuvette wall.
- 6 No-pause loading/unloading of reagents/samples/reaction cups without waiting or interrupting tests.
- 7 Pipetting detection technologies include liquid level, clot, and crash detection to ensure accurate pipetting.
- 8 The latest intelligent washing technology and bidirectional temperature control measurement guarantee accurate and reliable results.
- 9 Intelligent UI design, user-friendly, easy, and convenient operation.
- 10 Intuitive indicator lights make users no need to check reagents and consumables frequently.

MAGLUMI® X3 Reagent and Consumables



Reagent Kit



Reaction Cup



Starter 1+2



Light Check



Wash Concentrate



System Tubing Cleaning Solution

Broad CLIA Test Menu with 256 Assays



Thyroid

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

Fertility

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

Tumor Markers

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

Cardiac

CK-MB
Troponin I
Myoglobin
hs-cTnI
hs-CRP
H-FABP
NT-proBNP
BNP
D-Dimer
Lp-PLA2
MPO
HCY (Homocysteine)
*sST2
*hs-cTnI STAE-X™
*NT-proBNP STAE-X™
*Myoglobin STAE-X™
*D-Dimer STAE-X™

STAE-X™

*hs-cTnI STAE-X™ *D-Dimer STAE-X™
*NT-proBNP STAE-X™ *PCT STAE-X™
*Myoglobin STAE-X™ *CRP STAE-X™

Infectious Disease

Hepatitis

HBsAg
Anti-HBs
HBeAg
Anti-HBe
Anti-HBc
Anti-HBc IgM
Anti-HCV
Anti-HAV
HAV IgM
*HBV Pre-S1 Ag
*HEV IgG
*HEV IgM
*HDV IgG
*HDV IgM
*Anti-HDV

Respiratory

2019-nCoV IgG
2019-nCoV IgM
SARS-CoV-2 S-RBD IgG
SARS-CoV-2 Neutralizing Antibody
SARS-CoV-2 Ag
Mycoplasma pneumoniae IgG
Mycoplasma pneumoniae IgM
Chlamydia pneumoniae IgG
Chlamydia pneumoniae IgM
*Respiratory Syncytial Virus IgM
*Coxsackievirus B IgM
*Adenovirus IgM
*Influenza A Virus IgM
*Influenza B Virus IgM
**Legionella pneumophila* IgM
*Human Parainfluenza Virus IgM

Others

HIV Ab/Ag Combi
Syphilis
Chagas
HTLV I+II
H. pylori IgG
H. pylori IgA
H. pylori IgM
**H. pylori* Ag
Dengue Virus IgG
Dengue Virus NS1
*Dengue Virus IgM
Monkeypox Virus Ag
*TB-IGRAs
*Zika Virus IgG
*Zika Virus IgM
*Zika Virus NS1
**Chlamydia trachomatis* IgA
**Chlamydia trachomatis* IgG

Glyco Metabolism

C-Peptide	IAA (Anti Insulin)
Insulin	Proinsulin
Anti-GAD (GAD65)	*Glucagon
Anti-IA2	*Anti-ZnT8
ICA	

Autoimmune

Connective Tissue Disease

ANA Screen
ENA Screen
Anti-dsDNA IgG
Anti-Sm IgG
Anti-Rib-P IgG
Anti-SS-B IgG
Anti-SS-A/Ro IgG (Ro60)
Anti-Jo-1 IgG
Anti-Scl-70 IgG
Anti-Centromeres IgG
Anti-Histones IgG
Anti-Sm/RNP IgG
Anti-Ro-52 IgG
*Anti-PM-Scl IgG
*Anti-Nucleosome IgG

Rheumatoid Arthritis

Anti-CCP
*RF IgM
*RF IgG
*RF IgA
*RF Screen

Celiac Disease

Anti-tTG IgA
Anti-tTG IgG
DGP IgA
DGP IgG

Autoimmune Liver Disease

AMA-M2 IgG

Endocrinology

Anti-TPO
TGA (Anti-Tg)
TRAb
TMA
Anti-GAD (GAD65)
Anti-IA2
ICA
IAA (Anti Insulin)
*Anti-ZnT8

Vasculitis

Anti-MPO IgG
*Anti-PR3 IgG
*Anti-GBM IgG

Antiphospholipid Syndrome

Anti-Cardiolipin IgG
Anti-Cardiolipin IgM
*Anti-Cardiolipin IgA
*Anti-Cardiolipin
Anti- β 2-Glycoprotein I IgG
Anti- β 2-Glycoprotein I IgM
*Anti- β 2-Glycoprotein I IgA
*Anti- β 2-Glycoprotein I

Bone Metabolism

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

Prenatal Screening

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

TORCH

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
HSV-1 IgM
HSV-2 IgM
*Toxo IgG Avidity
*CMV IgG Avidity
*Parvovirus B19 IgG
*Parvovirus B19 IgM

Anemia

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

Drug Monitoring

Digoxin
CSA (Cyclosporine A)
FK 506 (Tacrolimus)
*Sirolimus
*Everolimus
*Mycophenolic Acid

Hypertension

Direct Renin
Aldosterone
Angiotensin I
Angiotensin II
Cortisol
ACTH

Metabolism

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

Kidney Function

β_2 -Microglobulin
Albumin
*NGAL

Immunoglobulins

IgM
IgA
IgE
IgG

Neurology

NSE
S-100
* β -Amyloid (1-40) CSF
* β -Amyloid (1-42) CSF
*Phospho-Tau (181P) CSF
*Total-Tau CSF

Inflammation Monitoring

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

Hepatic Fibrosis

Hyaluronic Acid (HA)
PIIIP N-P
C IV
Laminin
Cholyglycine
GP73

EBV

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

Coagulation Markers

D-Dimer
TAT
TM
PIC
tPAIC
*FDP

Veterinary Testing

cTSH
cTT4
cFT4
*cCortisol



* Available soon

Technical Specifications

Chemiluminescence Principle

- Direct chemiluminescence
- Magnetic microbeads separation, fast and efficient
- Key technology of ABEI-label and magnetic microbead separating enhances stability and sensitivity of **MAGLUMI®** reagents

Main Features

- Throughput: up to 200 tests/hour
- Space occupied < 0.68 m², throughput of per unit area > 294 T/h/m²
- 24 hours ready to use

Reagent Loading

- 20 reagent positions on board with no-pause loading/unloading
- 24-hour refrigerated, constant at 10°C (±3°C) in reagent area
- RFID reading all information of reagent
- Indicator light available, real-time status monitoring

Sample Loading

- Up to 72 sample positions
- No-pause loading/unloading, STAT available
- Indicator light available, real-time status monitoring
- Barcode recognition: barcode reader available
- Types of sample tube: micro sample cup, blood collection tube, plastic test tube
- Sample editing mode: LIS connection, barcode recognition, manual editing

Reagent Features

- **MAGLUMI®** reagent kits are compatible with all **MAGLUMI®** analyzers
- Calibrators and internal controls included
- 10 points master curve, 2-points re-calibration
- RFID tag storing all informations of reagents
- Storage temperature: 2°C-8°C

Reaction System

- Single reaction cup with five-sided heating at 37.0°C (±0.3°C) incubation, ensuring accurate, quick and uniform incubation
- Incubating 80 cuvettes simultaneously
- Non-contact mixing with different modes before incubation, ensuring sufficient reaction

Sampling System

- Titanium needle for crushproof
- Teflon coated for carry-over prevention
- Liquid level detection, clot detection, prevent bubble interference, collision detection, wash automatically

Consumable System

- Single cup design, no-pause loading/unloading
- Starters: 230 mL of Starter 1 and Starter 2
- System liquid: Up to load 10 L at one time
- Indicator light monitors real-time consumable quantity

Washer

- 4-step washing technology
- Intelligent magnetic field design ensures excellent separation
- Three independent non-contact magnetic microbeads vortex cleaning technology
- Resuspension washing mode efficiently reduces non-specific binding and improves sensitivity
- Independent washing unit for waste liquid needle can completely wash without residue

Measuring Chamber

- High-sensitivity and low-noise photomultiplier tube (PMT)
- Heating and cooling bidirectional temperature control function included
- Original light pollution isolation technology prevents light pollution and ensures accurate and reliable results

Software System

- Friendly software UI design, humanized instrument operation procedure
- Real-time status display for each test procedure
- Self-recovery function makes sure the analyzer running smoothly without unnecessary manual intervention
- Bidirectional **SnibeLis™** connection by TCP/IP and COM Port
- Supporting **SnibeLinker™** remote diagnosis system

Dimensions & Weight

- Dimensions: 78 (h) × 90 (w) × 75 (d) cm
- Weight: 127 kg

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