

# MAGLUMI<sup>®</sup> X3

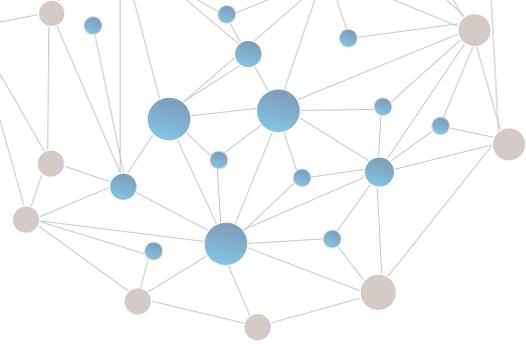
Fully-auto Chemiluminescence Immunoassay (CLIA) System



## Save Your Space Without Compromise

Powerful Performance and Compact Design

Compatible with Small and Medium-sized Hospitals and Labs

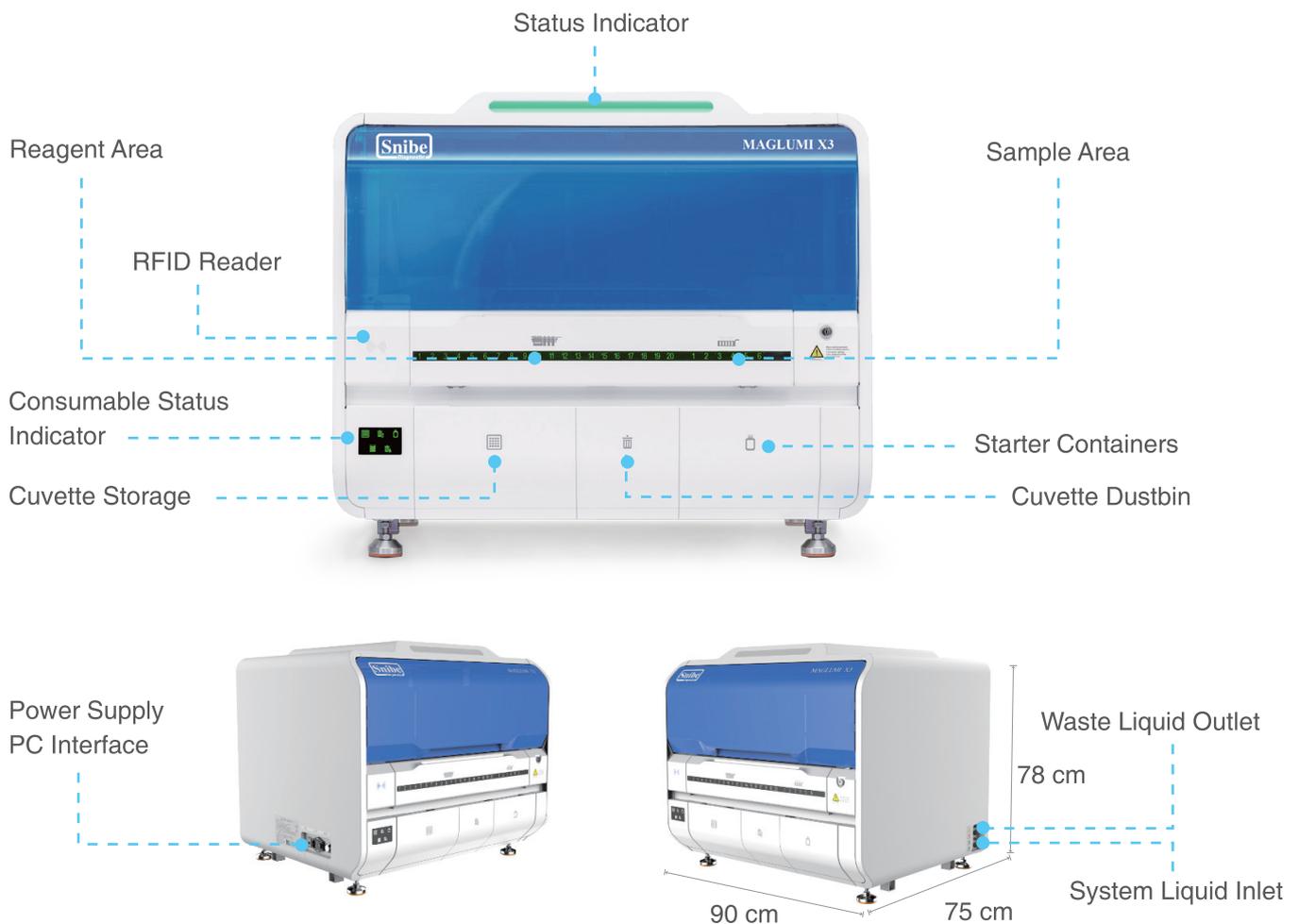


# MAGLUMI<sup>®</sup> X3

## Features & Benefits

- Small but powerful, the throughput is up to 200 tests/hour, and throughput per unit area is 294 T/h/m<sup>2</sup>.
- Compatible with all MAGLUMI<sup>®</sup> 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<sup>®</sup> 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  $37.0^{\circ}\text{C}$  ( $\pm 0.3^{\circ}\text{C}$ ), 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

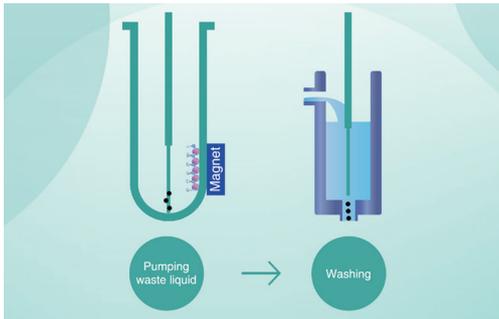
- ABEI-label exclusive proprietary technology
- PMT with heating and cooling function, ensuring the detection precision
- Independent measuring room, avoiding light cross-contamination





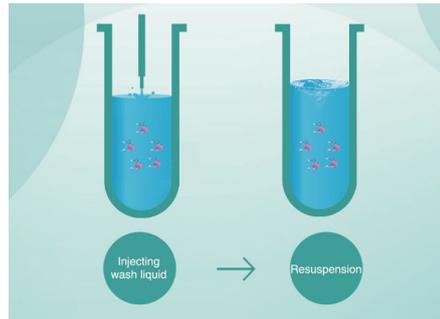
## Exclusive Intelligent Washing Technology

### 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.

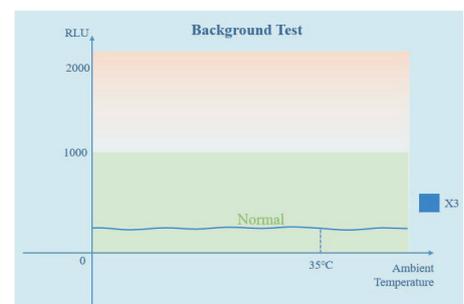
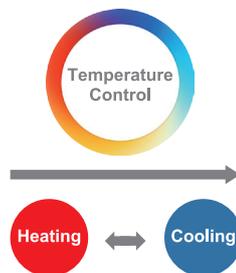
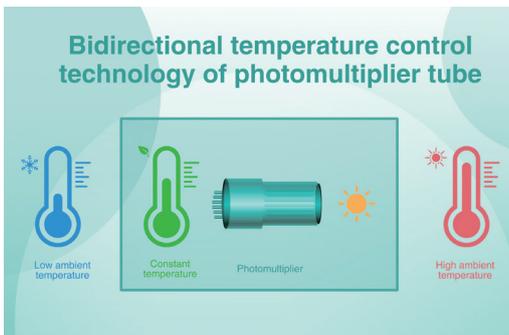
### Magnetic separation washing and non-contact vortex mixing



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/m<sup>2</sup>). 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 260 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  $\beta$ -HCG **FDA**  
 PRL (Prolactin)  
 Estradiol  
 Testosterone  
 free Testosterone  
 DHEA-S  
 Progesterone  
 Unconjugated Estriol  
 17 $\alpha$ -OH Progesterone  
 AMH  
 SHBG  
 Androstenedione  
 PIGF  
 sFit-1  
 \*Inhibin A  
 \*Inhibin B

## Prenatal Screening

AFP (Prenatal Screening)  
 free  $\beta$ -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

## Metabolism

GH (hGH)  
 IGF-I  
 IGFBP-3

## Infectious Disease

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

## Bone Metabolism

Calcitonin  $\beta$ -CTx  
 Osteocalcin total P1NP  
 25-OH Vitamin D **FDA** PTH (1-84)  
 Intact PTH \*BAP

## EBV

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

## 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**  
 tTG IgA  
 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- $\beta$ 2-Glycoprotein I IgG  
 Anti- $\beta$ 2-Glycoprotein I IgM  
 Anti- $\beta$ 2-Glycoprotein I IgA  
 Anti- $\beta$ 2-Glycoprotein I

## Anemia

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

## Tumor Markers

AFP  
 CEA  
 Total PSA  
 free PSA  
 CA 125  
 CA 15-3  
 CA 19-9  
 PAP  
 CA 50  
 CA 242  
 CYFRA 21-1  
 CA 72-4  
 NSE  
 S-100  
 SCCA  
 TPA-snibe  
 ProGRP  
 HE4  
 HER-2  
 PIVKA-II  
 Pepsinogen I  
 Pepsinogen II  
 Gastrin-17  
 \*AFP-L3%

## 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 **STAT-EX™**  
 \*NT-proBNP **STAT-EX™**  
 \*Myoglobin **STAT-EX™**  
 \*D-Dimer **STAT-EX™**

## Inflammation Monitoring

CRP  
 PCT (Procalcitonin)  
 IL-6 (Interleukin 6)  
 SAA (Serum Amyloid A)  
 TNF- $\alpha$   
 IgE  
 \*VEGF  
 \*PCT **STAT-EX™**  
 \*CRP **STAT-EX™**

## Neurology

NSE  
 S-100  
 \* $\beta$ -Amyloid (1-40) CSF  
 \* $\beta$ -Amyloid (1-42) CSF  
 \*Phospho-Tau (181P) CSF  
 \*Total-Tau CSF  
 \* $\beta$ -Amyloid (1-40) Plasma  
 \* $\beta$ -Amyloid (1-42) Plasma  
 \*Phospho-Tau (181P) Plasma  
 \*Phospho-Tau (217P) Plasma  
 \*NFL Plasma

## Kidney Function

$\beta_2$ -Microglobulin  
 Albumin  
 \*NGAL

## Glyco Metabolism

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

## Drug Monitoring

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

## Hypertension

Direct Renin  
 Aldosterone  
 Angiotensin I  
 Angiotensin II  
 Cortisol  
 ACTH

## Coagulation Markers

D-Dimer  
 TAT  
 TM  
 PIC  
 tPAIC  
 \*FDP

## Hepatic Fibrosis

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

## STAT-EX™

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

## Veterinary Testing

cTSH  
 cTT4  
 cFT4  
 \*cCortisol  
 \*cACTH



\* Available soon

Note: Product availability may vary by country and is subject to required regulatory approval

# 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**<sup>®</sup> reagents

## Main Features

- Throughput: up to 200 tests/hour
- Space occupied < 0.68 m<sup>2</sup>, throughput of per unit area > 294 T/h/m<sup>2</sup>
- 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**<sup>®</sup> reagent kits are compatible with all **MAGLUMI**<sup>®</sup> 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**<sup>™</sup> connection by TCP/IP and COM Port
- Supporting **SnibeLinker**<sup>™</sup> remote diagnosis system

## Dimensions & Weight

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

**MAGLUMI**<sup>®</sup>, **SnibeLis**<sup>™</sup> and **SnibeLinker**<sup>™</sup> are trademarks of Snibe.  
All other product names and trademarks are the property of their respective owners.



**Shenzhen New Industries Biomedical Engineering Co., Ltd.**  
(**SNIBE Co., Ltd.**)

No.23, Jinxiu East Road, Pingshan District, 518122 Shenzhen,  
P.R. China

Tel: +86 755 26501514

Email: sales@snibe.com

Fax: +86 755 26654850

Web: www.snibe.com

Follow us on

