

# MAGLUMI<sup>®</sup> X3

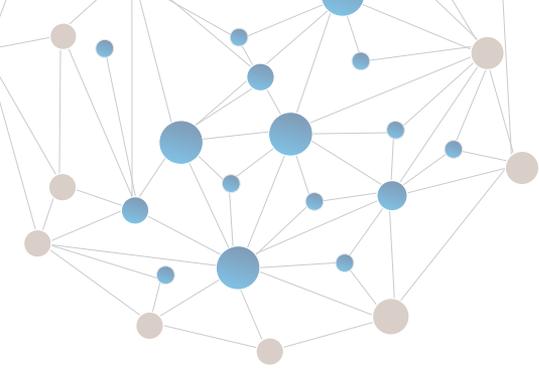
Fully-auto Chemiluminescence Immunoassay (CLIA) System



## Save Your Space without Compromise

Powerful Performance and Compact Design

Compatible with Small and Medium-sized Hospitals and Labs

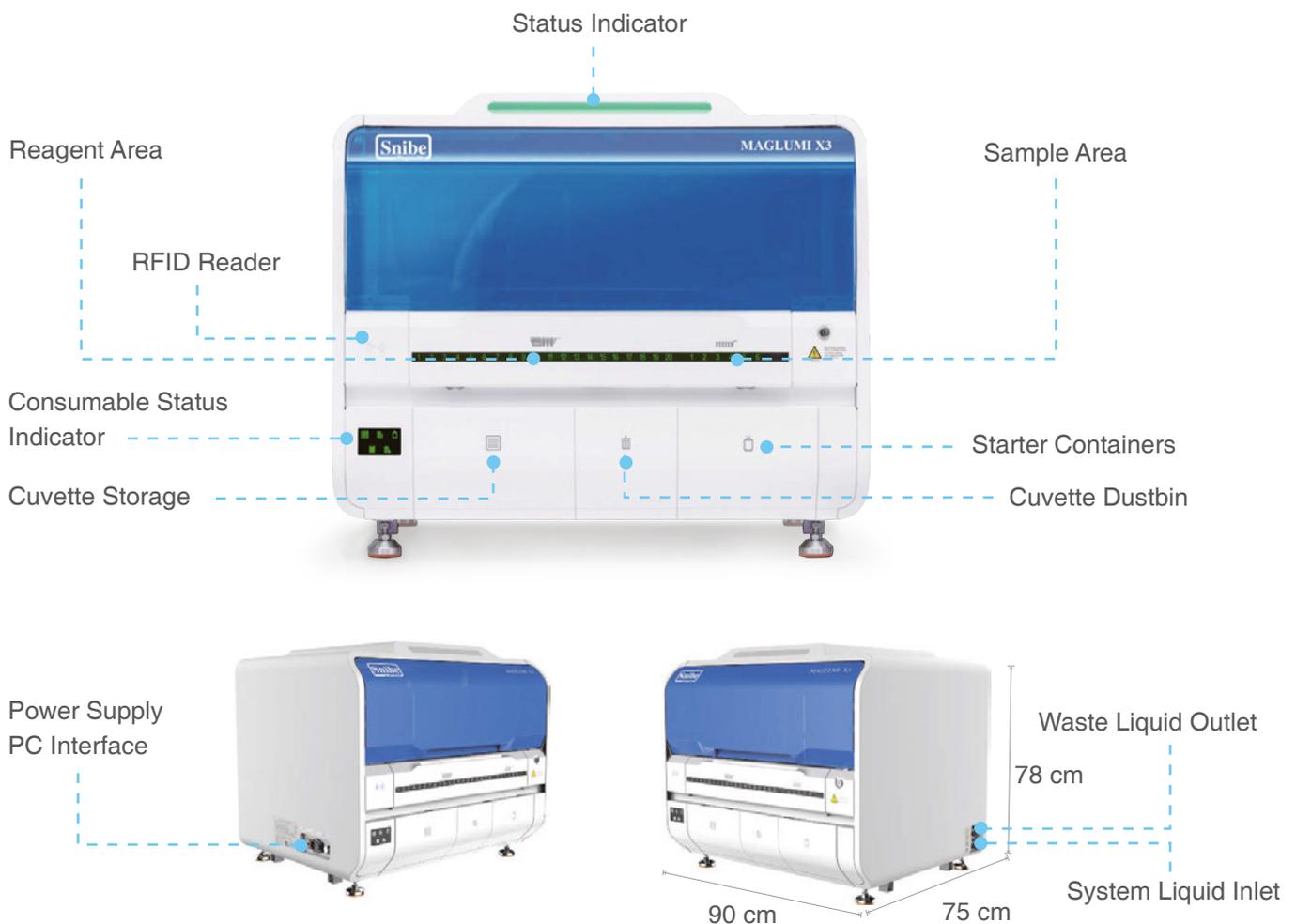


# MAGLUMI® X3

## 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® reagents, one of the broadest automated CLIA test menus in the world (236 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, it's 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



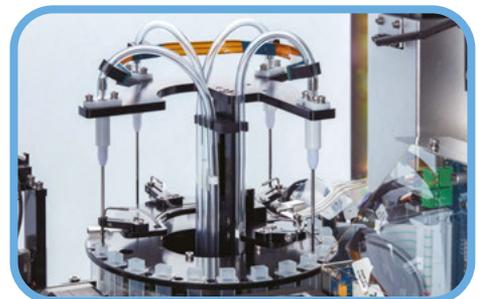
## Accurate Incubation Technology

- 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

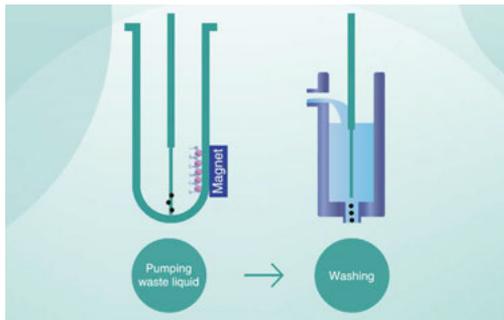
- ABEI-label exclusive proprietary technology
- PMT with heating and cooling function, ensuring the detection precision
- Independent measuring room, avoiding light cross-contamination





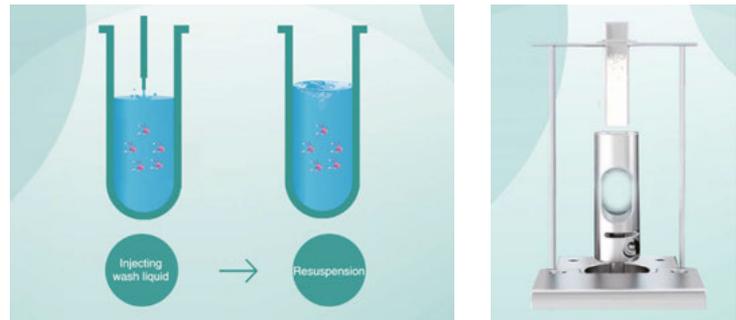
## Exclusive Intelligent Washing Technology

### Independent washing units for waste liquid needles



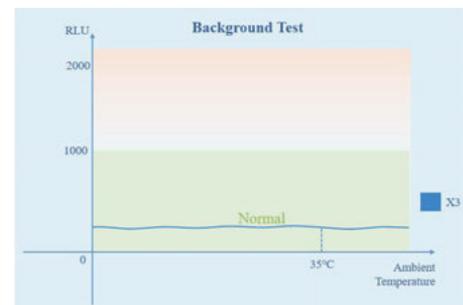
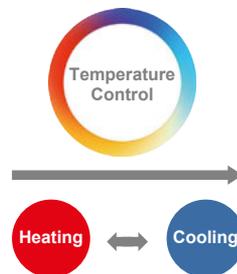
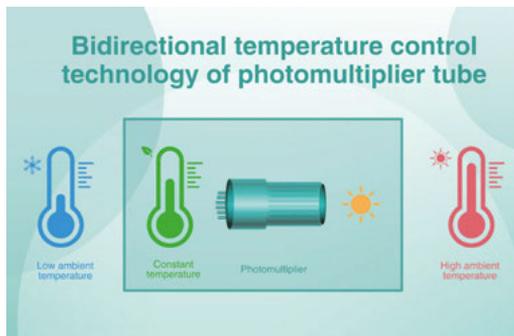
In the wash station, four waste liquid needles are equipped with four independent washing units to avoid the carry-over.

### 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



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 (236 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



# 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

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