MAGLUMI® X6

Fully-auto Chemiluminescence Immunoassay Analyzer

450 T/H

MAGLUMI X6

Flexible CLIA Solution
For Medium/High-volume Laboratory

CORE TECHNOLOGY – X-TECH

Patented Pipetting Technology

Accurate Incubation Technology

Intelligent Washing Technology

High-efficiency Loading Design
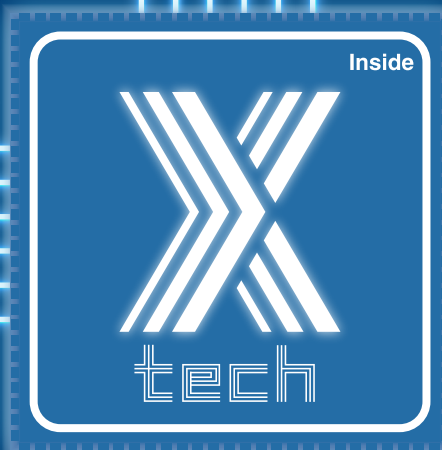
Inside

X tech

Stable and Precise Measuring Technology

Pioneer in Optional Wash Liquid Preparation

User-friendly with Easy-operation and Real-time Display
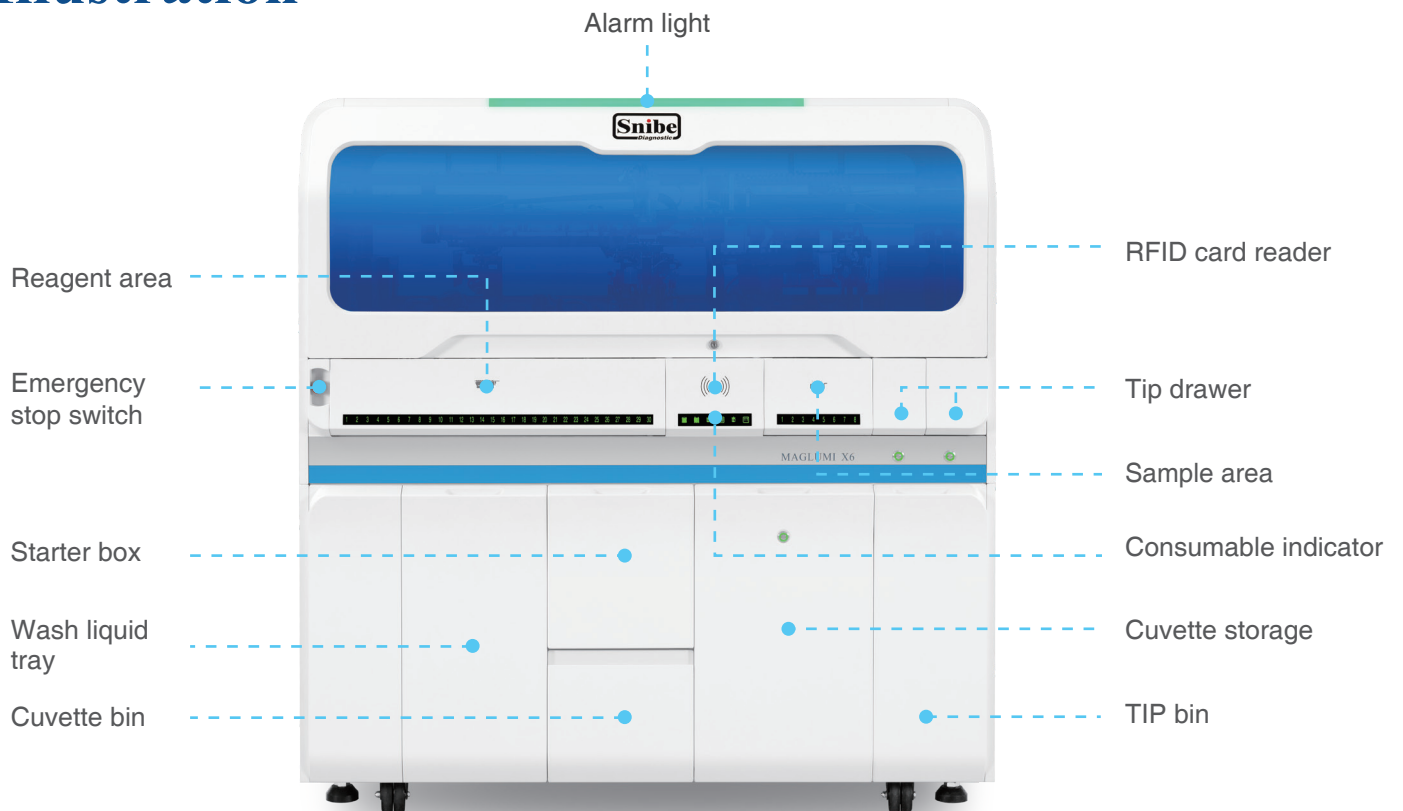
Multiple Expansion Solutions

MAGLUMI® X6

Based on X-Tech, gives you more possibility

- Throughput: 450 T/H

- Throughput per unit area: up to 320 T/H/m^2

- On board capability: 112/412 samples

- Reagent position: 30

- Walk-away tests: up to 2000 tests

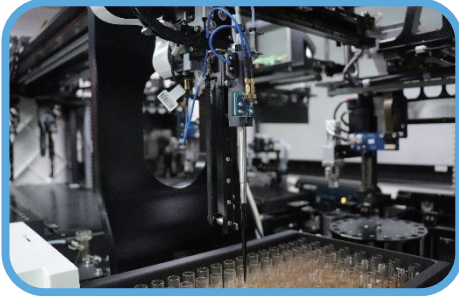- Cuvettes loading in one time: up to 2002

155 cm

148 cm

94 cm

Illustration

Alarm light

Reagent area

RFID card reader

Emergency stop switch

Tip drawer

Starter box

Sample area

Consumable indicator
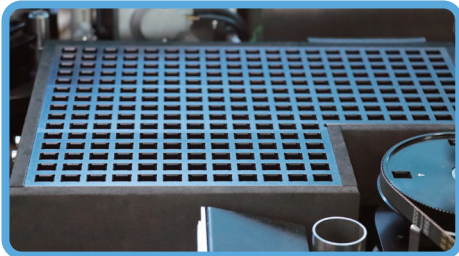
Wash liquid tray

Cuvette storage

Cuvette bin

TIP bin

Advanced Technology

Patented Pipetting Technology

- A revolutionary pipetting volume from 10-280 µl sampling volume
- Disposable filtered Tips avoid aerosol pollution, ensure no cross-contamination during the test
- Higher pipetting accuracy with low pipetting CV
- One pipetting for multiple test to save the costs

Accurate Incubation Technology

- Single cuvette with five-sided heating at 37°C, ensuring accurate, quick and uniform incubation
- Incubating 243 cuvettes simultaneously
- Non-contact mixing with different modes before incubation, ensuring sufficient reaction.

Intelligent Washing Technology

- Magnetic separation washing with 4-group 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 Precise Measuring Technology

- PMT with heating and cooling function, ensuring the detection precision
- Independent measuring room, avoiding light cross contamination

Multiple Expansion Solution

- 112 sample positions, up to 412 sample positions with expansion
- Capable to link laboratory automation system
- Multiple X6 units can be connected
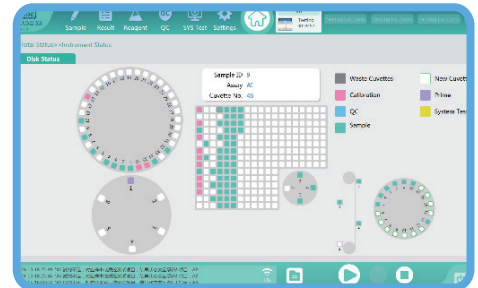
Pioneer in Optional Wash Liquid Preparation

*Two modes: Automatic or Manual

- Select Auto mode on the software, connect the X6 to the water purification system, ease your operational burden
- If water purification system is not available, the preparation can be done by manually mixing the wash liquid with pure water

User-friendly Design

- Fully automated analyzer from sample to result
- Light indicator and intelligent UI makes operation visualized
- Integrated packaging of cuvettes designed avoids damaging the cuvette wall
- One-side operation saves your space
- Real-time display and light indicator realize convenient management of analyzer status
- Up to 2000 walk-away test to economize manpower

High-efficiency Loading Design

- No-pause sample/reagent loading/unloading without interrupt the test
- RFID saves the information, saves your time
- All sample can be defined as STAT to be tested in priority
- Four kinds of pipetting error detection technologies reduce sampling error rate
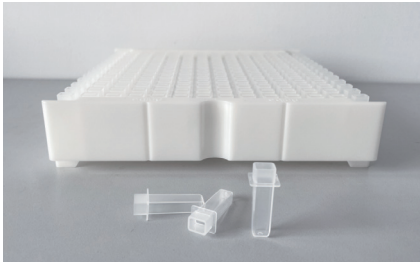
Top 10 Highlights of MAGLUMI® X6

1. Throughput up to 450 T/H —— One of the highest throughput analyzer with the same size.
2. Flexible sample positions design, from 112 to 412 which just require small upgrading.
3. Dual-mode wash liquid preparation ——Automatic or manual based on multiple scenarios.
4. No-pause sample loading/unloading design and STAT mode to avoid wasting your time.
5. Up to 2000 walk-away tests to avoid high frequency of manual intervention.
6. "One-side operations" design to save your working space.
7. Intelligent **SnibeLinker™** remote service solution to ensure the fast response.
8. **MAGLUMI®** reagent kits are compatible with all **MAGLUMI®** series analyzers.
9. Intelligent UI interface, user-friendly, easy and convenient operation.
10. Four key technology design of **MAGLUMI®** X6 guarantee accurate and reliable results

MAGLUMI® X6 Reagent and Consumables

Reaction Cup

Disposable TIPs

Starter 1+2

Wash Concentrate

Tubing Cleaning Solution

Light Check

Broad CLIA Test Menu with 211 Assays

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

Hepatic Fibrosis
HA
PIIIP N-P
C IV
Laminin
Cholyglycine
GP73

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

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

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

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

Kidney Function
β$_2$-MG
Albumin
*NGAL

Fertility
FSH
LH
HCG/β-HCG
PRL (Prolactin)
Estradiol
Testosterone
free Testosterone
DHEA-S
Progesterone
free Estriol
17-OH Progesterone
AMH
SHBG
Androstenedione
PIGF
sFlt-1

Autoimmune
Anti-CCP
Anti-dsDNA IgG
ANA Screen
ENA Screen
Anti-Sm IgG
Anti-Rib-P IgG
Anti-Scl-70 IgG
Anti-Centromeres IgG
Anti-Jo-1 IgG
Anti-M2-3E IgG
Anti-Histones IgG
Anti-nRNP/Sm IgG
Anti-SS-B IgG
Anti-SS-A IgG
TGA (Anti-Tg)
Anti-TPO
TRAb
TMA
ICA
IAA (Anti Insulin)
GAD 65
Anti-IA2
Anti-tTG IgA
Anti-tTG IgG
*DGP IgA
*DGP IgG
*Anti-ZnT8
Anti-MPO IgG
*Anti-PR3 IgG
*Anti-GBM IgG
*Anti-Cardiolipin IgG
*Anti-Cardiolipin IgM
*Anti-Cardiolipin IgA
*Anti-Cardiolipin screen
*β2-Glycoprotein I IgG
*β2-Glycoprotein I IgM
*β2-Glycoprotein I IgA
*β2-Glycoprotein I screen

Hypertension
Direct Renin
Aldosterone
Angiotensin I
Angiotensin II
Cortisol
ACTH

Immunoglobulins
IgM
IgA
IgE
IgG

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

Infectious Disease
HBsAg
Anti-HBs
HBeAg
Anti-HBe
Anti-HBc
Anti-HBc IgM
Anti-HCV
Syphilis
Anti-HAV
HAV IgM
*HEV IgG
*HEV IgM
HIV Ab/Ag Combi
Chagas
HTLV I+II
H.pylori IgG
H.pylori IgA
H.pylori IgM
2019-nCoV IgG
2019-nCoV IgM
SARS-CoV-2 S-RBD IgG
SARS-CoV-2 Neutralizing Antibody
SARS-CoV-2 Ag
Monkeypox Virus Ag
Dengue Virus IgG
Dengue Virus NS1
*Dengue Virus IgM
*Chlamydia Pneumoniae IgG
*Chlamydia Pneumoniae IgM
*Mycoplasma Pneumoniae IgG
*Mycoplasma Pneumoniae IgM

Veterinary Testing
*cTSH
*cTT4
*vFT4

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

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

Coagulation Markers
D-Dimer
TAT
TM
PIC
tPAIC

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

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

Anemia
Vitamin B12
Ferritin
Folate (FA)
EPO
RBC Folate

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

Bone Metabolism
Calcitonin
Osteocalcin
25-OH Vitamin D
Intact PTH
β-CTx
total P1NP

*Available soon

Technical Specifications

Main Features

- Throughput: up to 450 T/H (Single module)
- Sample expansion available
- Integrated wash liquid preparation
- Up to 2000 walk-away tests
- Modular Expanding Flexibility:
  *Capable to integrated several modules
  *Capable to link with Laboratory Automation System (TLA/LAS)

Reagent Loading

- 30 reagent positions on board with no-pause loading/unloading
- Double temperature mode ensures working temperature at 8°C-12°C and storage temperature at 2°C-8°C
- RFID reading all information of reagent
- Indicator light available, real-time status monitoring

Sample Loading

- Up to 112 sample positions (412 with expansion)
- No-pause loading/unloading, STAT available
- Indicator light available, real-time status monitoring
- Barcode recognition: Barcode reader available
- Sample editing mode: Lis connection, barcode recognition, manual editing

Reagent Features

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

Reaction System

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

Tip Storage

- Up to 384 TIPs loaded one time
- Intelligent loading technology, continuous loading, real-time reserve monitoring

Sampling System

- New generation pipetting technology realizes lower volume
- Filtered TIP avoids aerosol pollution
- Liquid level detection, clot detection, prevent bubble interference, collision detection, wash automatically

Consumable System

- Single reaction cup design, no-pause loading/unloading
- Starters: 1.5 L of Starter 1 and Starter 2
- Wash liquid: Up to load 140 L at one time automatically
- Indicator light monitors real-time consumable quantity

Washer

- 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
- Integrated auto and manual preparation of wash liquid

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 make 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: 148.2*94*155 cm
- Weight: 450 kg