MAGLUMI® X6

Fully-auto Chemiluminescence Immunoassay Analyzer

450 T/H

Flexible CLIA Solution

**For Medium/High-volume Laboratory**

CORE TECHNOLOGY – X-TECH

Patented Pipetting Technology

Accurate Incubation Technology

Intelligent Washing Technology

Inside

X tech

High-efficiency Loading Design

Stable and Precise Measuring Technology

Pioneer in Optional Wash Liquid Preparation

Multiple Expansion Solutions

User-friendly with Easy-operation and Real-time Display
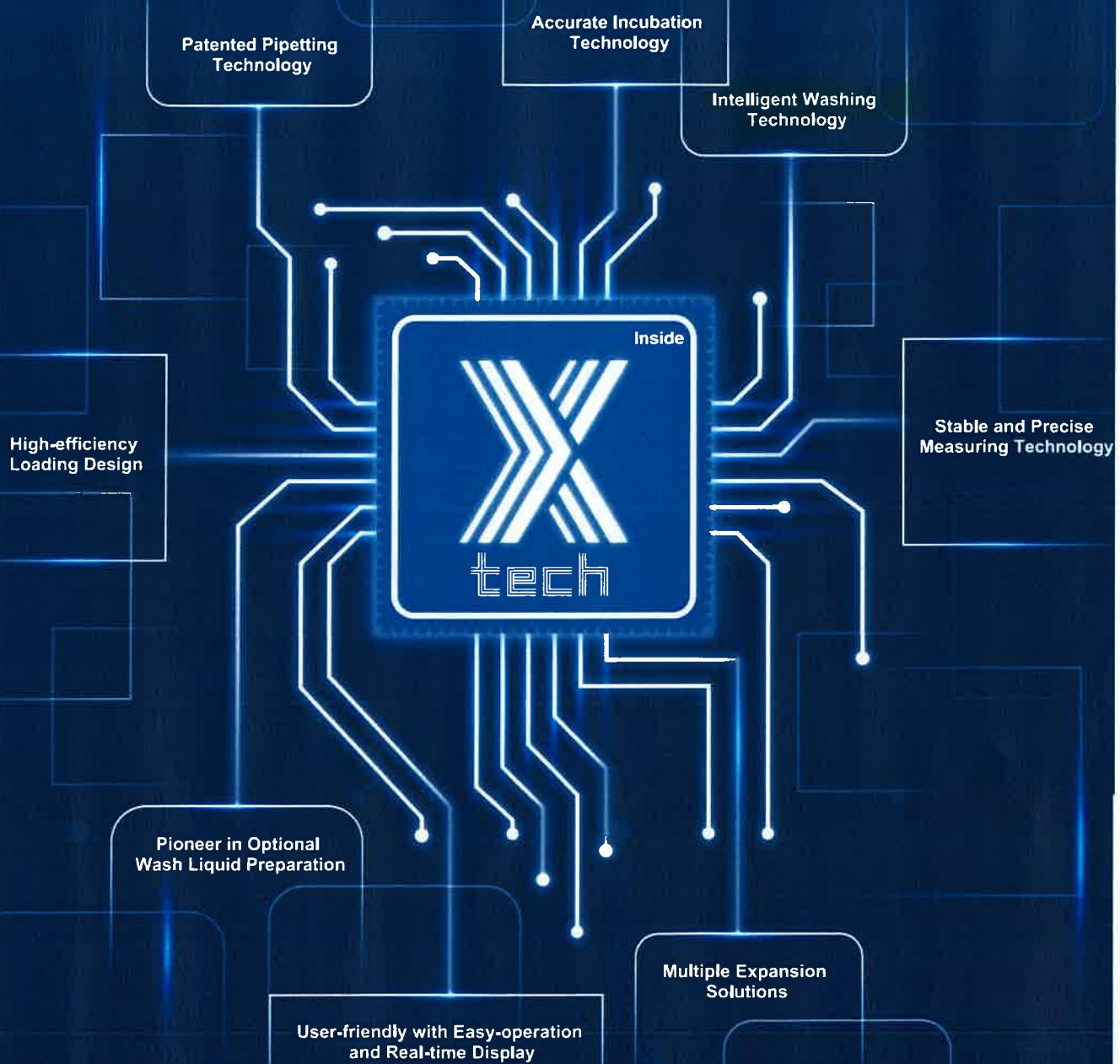
MAGLUMI® X6

Based on X-Tech, gives you more possibility

- Throughput: 450 T/H

- Throughput per unit area: up to 320 T/H/m²

- 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

Functional Modules

Alarm light

Reagent area

Emergency stop switch

Starter box

Wash liquid storage

Cuvette bin

RFID reader

Tip drawer

Sample area

Consumable indicator

Cuvette storage

Tip bin

Advanced Technology
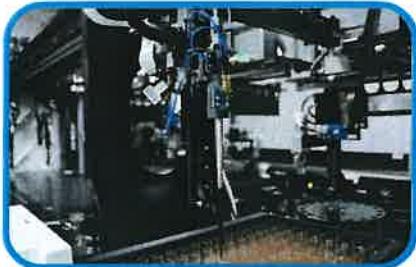
Patented Pipetting Technology

- A revolutionary sample pipetting volume from 10 to 280 μL
- Disposable filtered Tips avoid aerosol pollution, ensuring no cross-contamination during the test
- Higher pipetting accuracy with low pipetting CV
- One pipetting for multiple tests to save cost
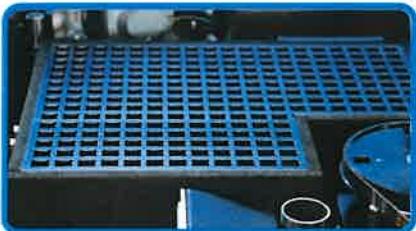
Accurate Incubation Technology

- 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 thorough 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 with laboratory automation system
- Multiple X6 units can be connected▲

▲ Expansion of X6 is available soon

Pioneer in Optional Wash Liquid Preparation

*Two modes: Automatic or Manual

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

User-friendly Design

- Fully automated analyzer from sample to result
- Light indicator and intelligent UI make operation visualized
- Integrated packaging of cuvettes design 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 tests to economize manpower
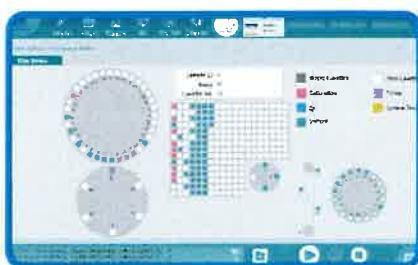
High-efficiency Loading Design

- No-pause sample/reagent loading/unloading without interrupting the test
- RFID recognizes the reagent information and saves your time
- All samples 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 from 112 to 412 with just small upgrades.
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 operation" 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 for easy and convenient operation.
10. Four key technologies of MAGLUMI® X6 guarantee accurate and reliable results.

MAGLUMI® X6 Consumables

Reaction Cup

Disposable TIPs

Starter 1+2

Wash Concentrate

Tubing Cleaning Solution

Light Check

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

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

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	β-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-β2-Glycoprotein I IgG
Anti-β2-Glycoprotein I IgM
Anti-β2-Glycoprotein I IgA
Anti-β2-Glycoprotein I

Anemia

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

Tumor Markers

AFP	NSE
CEA	S-100
Total PSA	SCCA
free PSA	TPA-snibe
CA 125	ProGRP
CA 15-3	HE4
CA 19-9	HER-2
PAP	PIVKA-II
CA 50	Pepsinogen I
CA 242	Pepsinogen II
CYFRA 21-1	Gastrin-17
CA 72-4	*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-X™
*NT-proBNP STAT-X™
*Myoglobin STAT-X™
*D-Dimer STAT-X™

Inflammation Monitoring

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

Neurology

NSE
S-100
*β-Amyloid (1-40) CSF
*β-Amyloid (1-42) CSF
*Phospho-Tau (181P) CSF
*Total-Tau CSF
*β-Amyloid (1-40) Plasma
*β-Amyloid (1-42) Plasma
*Phospho-Tau (181P) Plasma
*Phospho-Tau (217P) Plasma
*NfL Plasma

Kidney Function

β₂-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-X™

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

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

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 in 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
- 4-Step high-efficiency washing technology with non-contact vortex mixing
- 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