

BC-700 & BC-720

Auto Hematology Analyzer with ESR



Key Specifications

Principles
WBC (IMG/Neu/Mon/Lym/Eos/Bas), NRBC/RET*,PLT-H/PLT-O*/IPF:
SF Cube ^ Cell Analysis Technology
^S: Scatter; F: Fluorescence; Cube: 3D analysis

RBC, PLT
Focusing Flow-DC Impedance Method

HGB
Colorimetric method

ESR
Photometric method

Number of measuring parameters (whole blood): 109
Number of reportable parameters: 41
WBC Bas# Bas% Neu# Neu% Eos# Eos% Lym# Lym% Mon#
Mon% IMG# IMG% RET%* RET#* RHE* IRF* LFR* MFR* HFR*
RBC HGB MCV MCH MCHC RDW-CV RDW-SD HCT NRBC#
NRBC% PLT PLT-I PLT-H PLT-O* MPV PDW PCT P-LCR P-LCC
IPF ESR
Number of research parameters: 68*

Number of measuring parameters (body fluid): 18
Number of reportable parameters: 7
WBC-BF TC-BF# MN# MN% PMN# PMN% RBC-BF
Number of research parameters: 11

Sample volume
CD (whole blood): 23ul CD+ESR
(whole blood): 160ul Predilute: 20ul

Data storage capacity
Up to 150,000 results including numeric and graphical information *

Throughput
CD 80t/h CDR 45t/h CD+ESR 40t/h

Analysis Mode

Sample Type	Analysis Mode
Whole blood	CBC, CBC + DIFF, CBC + DIFF + RET*, CD + ESR, CDR + ESR*, CD/WBC-3X, CDR/PLT-5X*, and other modes
Predilute	CBC, CBC + DIFF, CDR*, and other modes
Body fluid	CBC + DIFF

Physical Specifications

Dimensions
500D x 325W x 450H mm

Weight
≤35Kg

Voltage
100V-240V~ (±10%)

Frequency
50Hz/60Hz (±1Hz)

Power input
300VA

External output
LAN x 1 , USB x 4 (Specifications: DC 5V; 500mA;
USB 2.0 x 3; USB 3.0 x 1)

Normal Operating Environment

Ambient temperature:
10℃ ~ 35℃

Relative humidity:
30% ~ 85%

Atmospheric pressure:
70.0kPa ~ 106.0kPa^
^Note : Required altitude for normal operation:
-400m ~ +3000m

Performance

Parameter	Linearity Range	Precision	Carryover
WBC	0-500×10 ⁹ /L	≤2.5% (≥4.51×10 ⁹ /L)	≤ 1.0%
RBC	0-8.60×10 ¹² /L	≤1.5% (≥3.5×10 ¹² /L)	≤ 1.0%
HGB	0-260g/L	≤1.0% (110-180g/L)	≤ 1.0%
HCT	0-75%	≤1.5% (30%-50%)	≤ 1.0%
PLT*	0-5000×10 ⁹ /L	≤ 1.5(SD) (≤20×10 ⁹ /L)^ ≤ 2.5% (≥100×10 ⁹ /L)^	≤ 1.0%
RET*	0-0.8×10 ¹² /L	≤15% (RBC ≥ 3.00×10 ¹² /L RET%: 1.00% ~ 4.00%)	≤ 1.0%
ESR		≤1.8(SD)(0~20mm/h)	≤ 1.0%
^ Note: Applicable only to CDR/PLT-O 5x and CR/PLT-O 5x models			

Items marked with an asterisk (*) apply only to BC-720

BC-700 & BC-720

Auto Hematology Analyzer with ESR

Above and Beyond



www.mindray.com

P/N:ENG-BC-700 & BC-720 ESR-210285X6P-20220115
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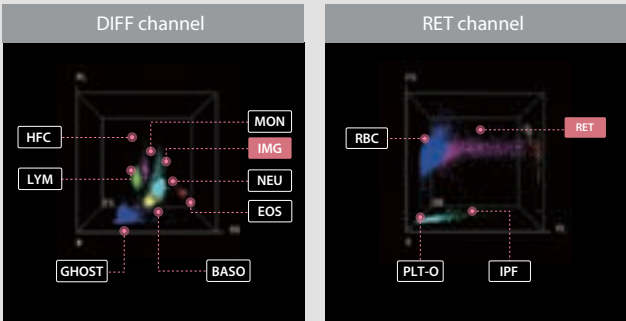
BC-700 & BC-720 Auto Hematology Analyzer with ESR

••• Above your expectations

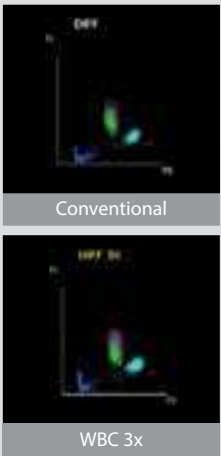
- SF Cube fluorescent technology allows reliable counting and differentiation of abnormal samples

— More refined and reliable cell differentiation

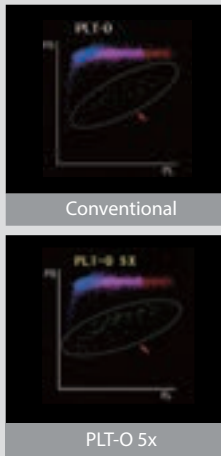
3D fluorescent analysis technology allows reliable differentiation of immature and other abnormal cells, such as immature granulocytes (IMGs), reticulocytes (RETs*), and immature platelet fraction (IPF).



WBC-Part Differentiation



PLT-O Measurement



— More reliable measurements for low-value samples

The BC-700 & BC-720 3D fluorescence analysis platform is designed with multiple counting WBC-3x and PLT-O 5x analysis modes to help ensure higher reliability for low-value WBC and PLT samples. In addition, the PLT de-aggregation function can reduce the cumbersome review work.



— More comprehensive alarm messages for abnormalities

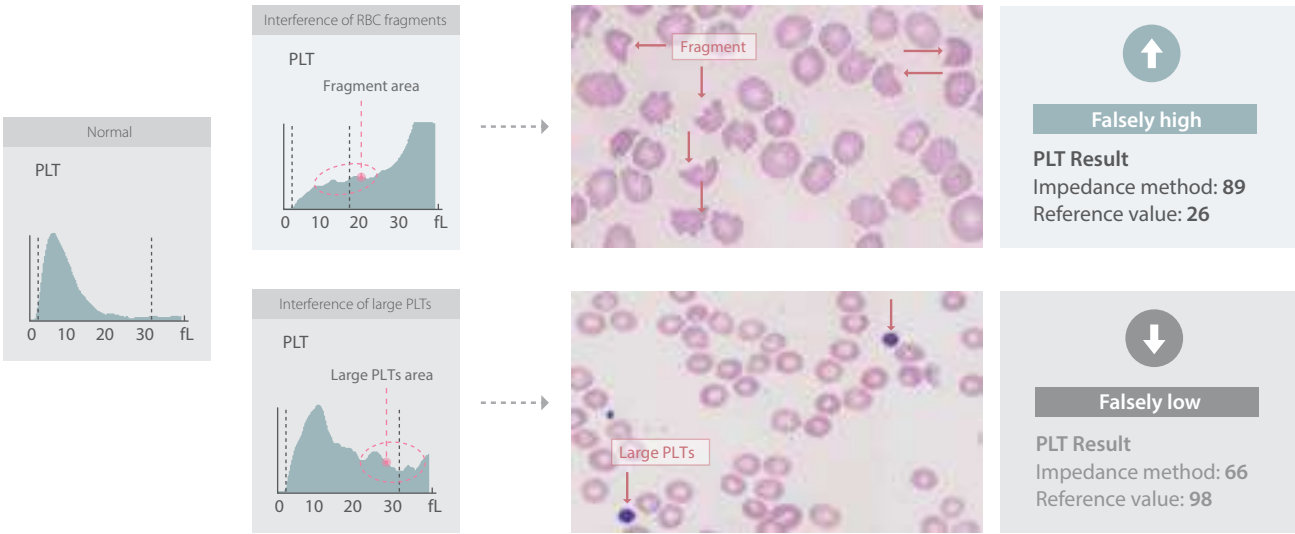
The analyzer provides a detailed list of over 40 prompt messages, including WBC message, RBC message, and PLT message. This allows laboratory technicians to intuitively and quickly identify abnormal samples and proceed further with the samples in a timely manner. This in turn helps to avoid missed diagnosis of blood disease and false reports.

BC-700 & BC-720 Auto Hematology Analyzer with ESR

••• Beyond your expectations

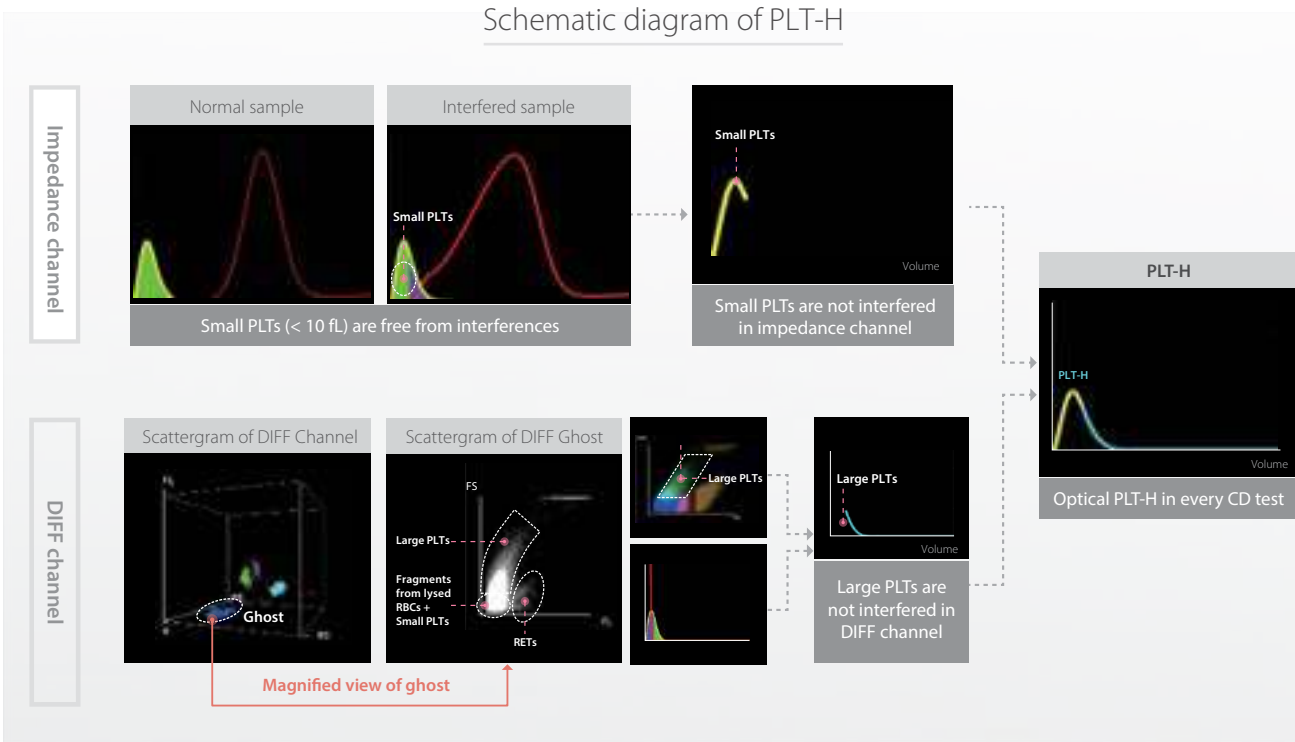
- Limitations of traditional PLT counting

In the traditional impedance method, PLTs are subject to interferences that may lead to falsely high or falsely low results (as shown in the figure). Once an error report is generated, it will directly affect the judgment and decision-making of clinicians. The results reported at the clinical decision level are related to patient safety. Therefore, accurate PLT results are critical in clinical practice.



Optical PLT-H in every CD test

In order to solve the above problem, we have developed a brand new parameter PLT-H. It combines small PLTs from the conventional impedance method and large PLTs from the optical method. The solution can resist the interferences in conventional PLT detection without requiring extra reagents.





CD + ESR in one test provide reliable ESR results with greater ease

The BC-700 series integrates an automatic ESR module in a hematology analyzer. It can also generate both CBC & ESR results in one test within 1.5 min. In addition, it saves the costs that would otherwise be incurred for the purchase, maintenance, consumables, and storage space of a separate ESR analyzer. Compared with the traditional Westergren method, this method performs better in quality traceability, repeatability, speed, safety, and level of automation.

Accurate

- Great correlation with the Westergren method
- Same QC and calibrator as in the BC-6000 series
- Combined examination helps to avoid the interferences of dehydration, polycythemia vera and anemia on ESR results;



Cost-effective

- The integrated instrument is capable of both CBC and ESR detection;
- Takes up the space of only one analyzer.



Automatic

- Report CBC + ESR results together within 1.5 min;
- The measurement results are protected against the influence of subjective factors;
- Automation can reduce the biosafety hazards that may otherwise be introduced by a manual method.

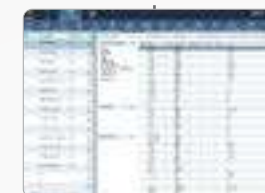


► Excellent performance, high reliability, and ease of use



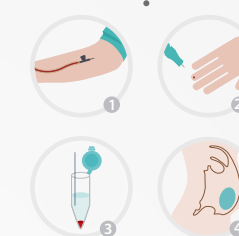
RFID
Encryption key management

labXpert
Coming as standard configuration
Same software as BC-6 series



Floating screen
Switching between different analysis modes with a single touch

Applicable to different sample types
Peripheral blood/Capillary blood
Pre-diluted blood/Body fluid



► An all-in-one solution that goes above and beyond your expectations



BC-5150

Auto Hematology Analyzer

Technical Specifications

Principles

Impedance method for RBC and PLT counting
Cyanide free reagent for hemoglobin test
Flow Cytometry (FCM) + Laser scatter + Chemical dye method for WBC 5-part differential analysis and WBC counting

Parameters

25 parameters: WBC, Lym%, Mon%, Neu%, Bas%, Eos%, Lym#, Mon#, Neu#, Eos#, Bas#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCR, P-LCC.
4 Research parameters include LIC%, LIC#, ALY%, ALY#
3 Histograms for WBC, RBC and PLT
3 scattergrams for 4-differential

Reagent

Diluent, DIFF lyse, LH lyse, probe cleanser

Performance

Parameter	Linearity Range	Precision	Carryover
WBC	0-500×10 ⁹ /L	≤2% (4-15×10 ⁹ /L)	≤0.5%
RBC	0-8×10 ¹² /L	≤1.5% (3.5-6.0×10 ¹² /L)	≤0.5%
HGB	0-250g/L	≤1.5% (110-180g/L)	≤0.6%
PLT	0-5000×10 ⁹ /L	≤4.0% (100-500×10 ⁹ /L)	≤1.0%

Sample Volume

Prediluted mode	20 μL
Whole blood mode	15 μL
Capillary Whole blood mode	15 μL

Throughput

60 samples per hour

Display

10.4 inch TFT Touch Screen

Multi-language

Chinese, English

Data Storage Capacity

Up to 40,000 results including numeric and graphical information

Communication

LAN Port supports HL7 protocol

Interface

USB, LAN
Support Uni- or bi-directional LIS

Printout

External Laser printer / Inkjet printer, various printout formats and User-defined formats

Operating Environment

Temperature: 10°C~30°C
Humidity: 20%~85%
Air pressure: 70 kPa~106 kPa

Power requirement

100V-240V
50Hz/60Hz

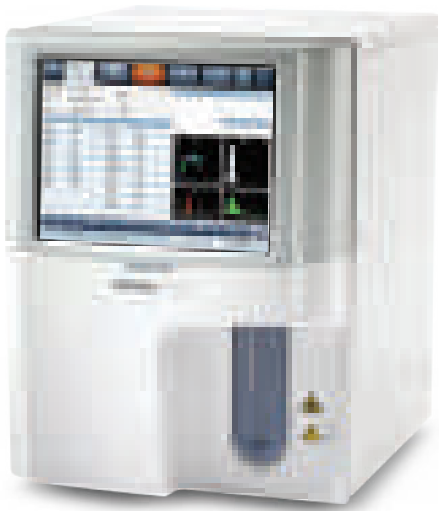
Dimension and Weight

Depth*width*height: 400mm*320mm*410mm
Weight :24kg



BC-5150

Auto Hematology Analyzer



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healthcare within reach

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Mindray is listed on the NYSE under the symbol "MR"

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P/N: ENG-BC5150-21285x2-20130701

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Technical Specifications:

Principles

Flow Cytometry (FCM), Semi-conductor Laser scatter, chemical dye method, independent Basophil channel
Impedance method for WBC, RBC, PLT counting
Cyanide-free reagent for Hemoglobin test

Parameters

27: WBC, Lym%, Mon%, Neu%, Eos%, Bas%, Lym#, Mon#, Neu#, Eos#, Bas#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, LIC%, LIC#, ALY%, ALY#
3 histograms and 1 scatter gram

Sampling Mode

Autoloader
Closed Tube

Throughput

Up to 60 samples per hour with autoloader
Up to 50 samples per hour with closed tube

Sample Volume

Whole Blood: 20 µL
Prediluted: 20 µL

Test Mode

CBC CBC+DIFF

Performance

Carryover	Precision	Linearity
WBC ≤ 0.5%	≤ 2.0% (4-15 x 10 ⁹ /L)	0.00-99.99 x10 ⁹ /L
RBC ≤ 0.5%	≤ 1.5% (3.5-6.0 x 10 ¹² /L)	0.00-8.00 x10 ¹² /L
HGB ≤ 0.5%	≤ 1.5% (110-180g/L)	0-250g/L
PLT ≤ 1.0%	≤ 4.0% (150-500 x 10 ⁹ /L)	0-1000 x10 ⁹ /L



Data Storage Capacity

Up to 40,000 results including numeric and graphical information

Communication

LAN Port supports HL7 protocol

Operating Environment

Temperature: 15 °C~30°C
Humidity: 30~85%
Air Pressure: 70~106 kPa

Power Requirement

A.C.100-240V ≤ 300VA 50/60Hz
Weight: ≤ 58 Kg

BC-5380

Auto Hematology Analyzer

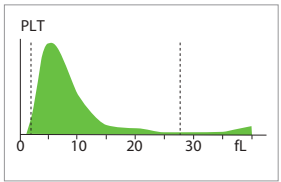
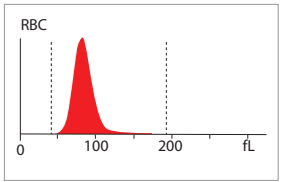
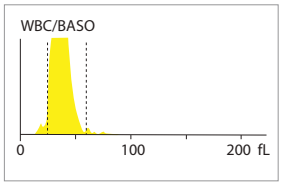
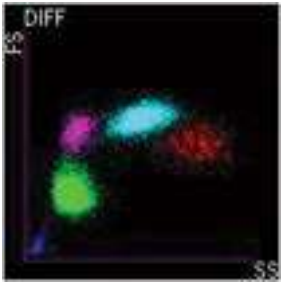


BC-5380

Auto Hematology Analyzer

The new BC-5380 Auto Hematology Analyzer provides rapid and reliable test from just 20uL of blood. Utilizing three mainstream technologies: laser scatter, flow cytometry and chemical dye, BC-5380 can provide accurate differential readout. In order to save time and increase walk-away automation, an autoloader is equipped to hold 30 tubes one time and achieve 60 samples/hr throughput. With the popular windows based software, you can easily perform the routine tests, manage patient results, set up auto-cleaning and connect with LIS server. BC-5380 is your ideal choice to streamline daily workflow.

- Semi-conductor laser scatter combined with chemical dye method and advanced flow cytometry
- 27 parameters for complete 5-part differentiation (CBC+DIFF) on white blood cells including immature cells;
- 30-tubes autoloader with random access
- Closed tube sampler supporting selected microtainers
- Capability to flag abnormal samples
- Compact and no external air pump to avoid noise
- 20 µL blood sampling for CBC+DIFF test while 15uL for CBC test
- Up to 60 samples per hour throughput
- Supports both whole blood and capillary blood samples
- Windows software with at least 40,000 storage for patient results and 60 files for QC data
- Customization on reference range, auto-cleaning schedule and report format
- Support bi-directional LIS connection



White blood cell differentiation

The semi-conductor laser system collects forward scatter and side scatter information of white blood cells in a flow cell and differentiates lymphocytes, monocytes, neutrophils and eosinophils according to the cell size and granule complexity. Specific chemical dye treatment to eosinophils can separate from neutrophils in DIFF scattergram. In addition, basophils are measured in an impedance channel upon lysing action on the RBC and other WBC groups.

Advanced impedance measurement for RBC and PLT

Mindray patented digital sheath flow and weak signal detection techniques are applied to ensure accurate counting and sizing of RBC and PLT in the impedance channel. Dynamic discriminator adjustment can improve the separation of RBC and PLT groups when large platelet and micro RBC are present. Benefiting from these improvements, MCV, RDW and PLT performance are greatly enhanced.

Flag abnormality

Besides of the routine CBC+DIFF results, BC-5380 offers data result for large immature cell and atypical lymphocytes in infectious diseases. Intelligent flagging system can help doctors fish out suspicious cases for further validation check. For example, microcytosis, anemia, eosinophilia, PLT clump and so on. The manual microscopic check results and morphology description can be print together in the final report.

Autoloader and STAT

30 vacutainer tubes can be put on the autoloader for continuous loading which increases walk-away time; an independent closed tube sampler can be used for STAT test and can fit selected microtainer tubes.



20 µL blood sampling

The precise sampling system enables microsampling of 20uL blood for CBC+DIFF test, making the analyzer an ideal choice to work with pediatric and geriatric samples. The benefits extend to reduced reagent consumption and possibility for a backup test.



M-53 reagents and BC-5D controls

Only 4 routine M-53 reagents are utilized in counting cycle featuring economical consumption and 2 years shelf life. To help precision monitoring, three levels of BC-5D controls are offered in a ready-to-use kit and the assay value table can be automatically imported through USB memory.



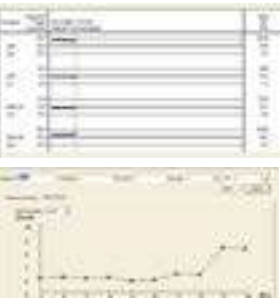
Windows based software

The analyzer's windows-based software is simple to use and plays a powerful information hub to store 40,000 patient results. You can set-up password access, reference range, auto-cleaning schedule and so on. Also, the built-in report format tool can help to customize the final report type to include microscopic counting, ESR, blood type and diagnostic remarks. Most of the maintenance functions are presented in cartoon icons and can be executed in mouse click without manual work.



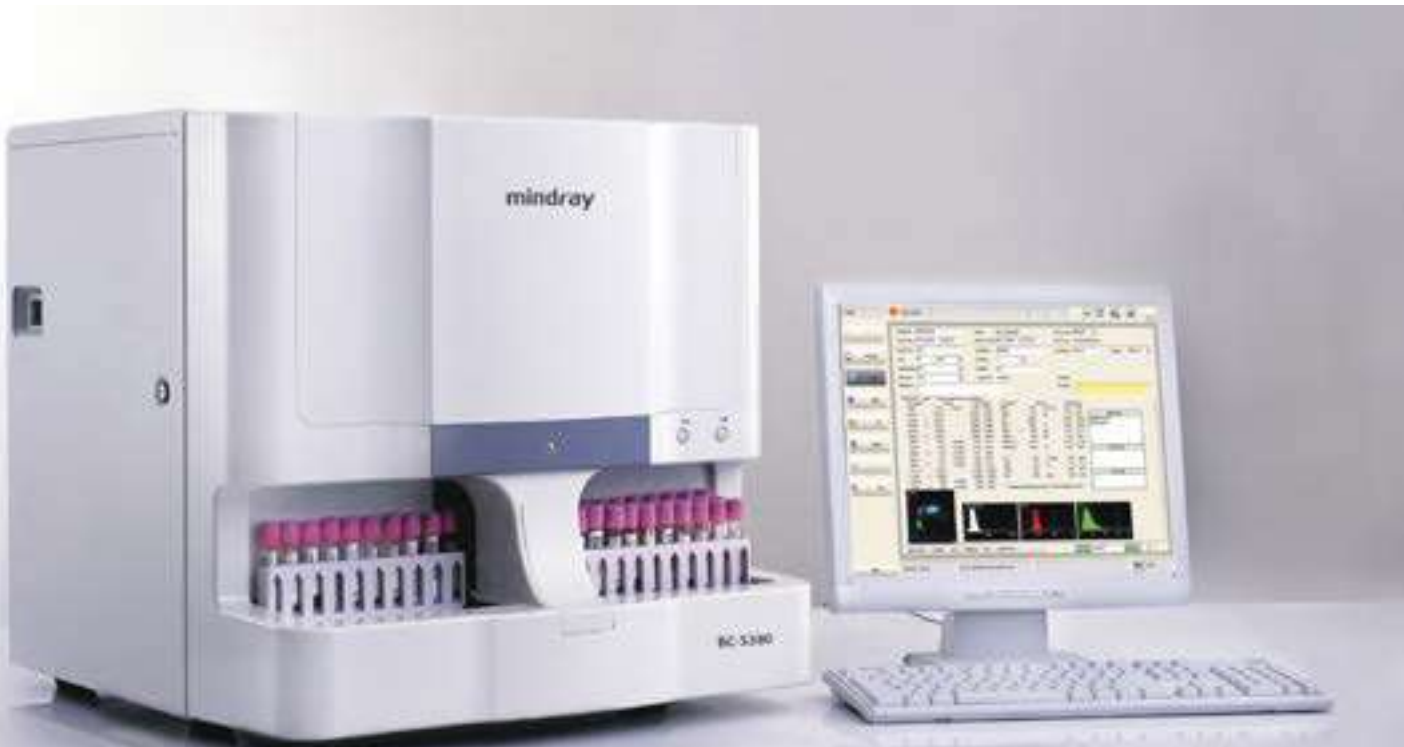
QC monitoring and patient archive

60 QC files are designed to store L-J QC results. 300 data points can be recorded in single file. 4 common QC programs are enabled for full quality assurance purposes. Patient data is archived and can be searched and presented in trend curve for case follow-up.



Network connection

Supporting HL7 protocol, BC-5380 can be linked to LIS both in uni- and bi-directional manner. Test orders and patient information can be downloaded from server and the results can be automatically transmitted when tests finish.



**CARACTERISTIQUES TECHNIQUES
DE L'EX-D, MARQUE JOKOH, JAPON**

**AUTOMATE POUR L'ANALYSE DE L'IONOGRAMME
3 PARAMETRES (Na, K, Cl)
+ PASSEUR D'ECHANTILLONS A 20 POSITIONS**

Paramètres mesurés

Na+
K+
Cl-

Intervalle

70 - 200 mmol/l
1 - 20 mmol/l
70 - 200 mmol/l

Sortie de données

Affichage : Ecran LCD lumineux
Impression : Imprimante intégrée à papier thermique
Interface : Port série RS 232

Calibration

Calibration Automatique
Programme économique : ajustement de l'intervalle de calibration

Echantillon

Tube à échantillon: Capillaire, seringue et autres.
Volume d'échantillon : 95 µl de sang total, sérum, plasma ou urine dilué
Mémorisation : 500 patients

Passeur d'échantillon : 20 positions

Cadence : jusqu'à 100 Echantillons / heure

Electricité/Données Générale

Voltage: 110 V Resp. 230 V AC
Frequence: 50/60 Hz
Consumation: 220 VA
Temperature: 12 - 32°C

Dimensions/ Poids

Hauteur: 350 mm
Largeur: 240 mm
Profondeur: 410 mm
Poids: Appr 14 Kg





BS-240

Clinical Chemistry Analyzer



mindray
healthcare within reach



Flexible loading:

Up to **80** sample positions,

Up to **80** reagent positions.

(40 fixed + 40 interchangeable)

Smart-Sampling Technology

Automatic hemolysate
preparation for

HbA1c test



100μl
minimum reaction volume



Upgraded auto-washing system
ensures low carryover and low water
consumption.



BS-240

Clinical Chemistry Analyzer

Compact Size with Robust Functions



Independent mixing bar



Built-in barcode reader



Intelligent software with user-friendly interface



Step-by-step maintenance guide



Waterfall probe cleaning

BS-240

Complete traceability process

Complete calibration hierarchy and traceability chain are based on ISO standard (EN/ISO17511) from reference system to routine measurement system.

Traceability chain of Mindray measurement system (Glu)

Traceability Material Calibration / Value Assignment Procedure Implementation Uncertainty $U_c(y)$

SI unit, mmol/L

Reference material
SRM 917C

Primary Reference
measurement procedure

Mindray Master
Calibrator

CDC Hexokinase
reference method

Mindray Product
Calibrator

Mindray standard
Measurement system

Routine Sample

End user' Routine
Mindray

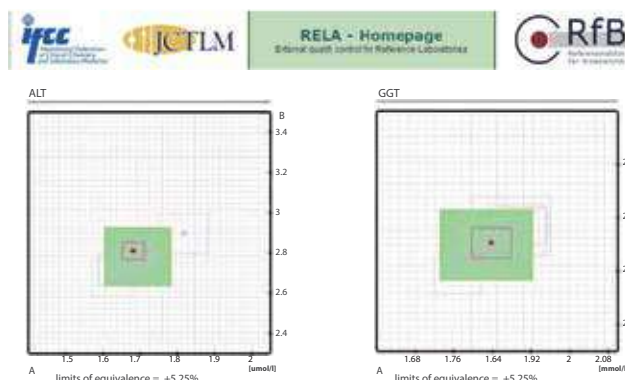
Result

External quality assurance for reference measurement

Mindray participates in RELA (External quality control for reference laboratory) and CAP (College of American Pathologists external quality control).

EQA for Mindray Reference laboratory——RELA

Mindray reference laboratory has passed RELA for 6 consecutive years.



More RELA results please refer to: www.dgkl-rfb.de/81

RELA

All the items Mindray participate RELA

ALT AMY ALP CK GGT GLU LDH TB TP UA UREA

EQA for Mindray Testing System——CAP

Mindray testing system has passed CAP for 6 consecutive years.



CAP Number: 7198395-01 Kit# 1
Institution: Shenzhen Mindray Biomed Elec Co Ltd
Attention: Lixing Liu MD
City / State: Hongkong HK CH 518055

Kit ID: 25733824
Kit Mailed: 6/3/2013
Original Evaluation: 7/8/2013

EVALUATION
ORIGINAL

C-B 2013 Chemistry

CAP

CAP #: 7198395				Subspecialty : Routine Chemistry							
Regulated Analyte	Proficiency Event 2012 3			Proficiency Event 2013 1			Proficiency Event 2013 2			Current Event Performance Interpretation	Cumulative CLIA '88 Performance Interpretation
	Test Event	Score	%	Test Event	Score	%	Test Event	Score	%		
ALT	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Albumin	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Alkaline Phosphatase	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Amylase	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
AST	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Bilirubin, Total	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Calcium, Total	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Chloride	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Cholesterol, Total	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Cholesterol, HDL	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Creatine Kinase	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Creatinine	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Glucose	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Iron, Total	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
LD	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Magnesium	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Potassium	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Sodium	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Protein, Total	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Triglycerides	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Urea Nitrogen	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Uric Acid	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful

Reagent menu

Hepatic Panel

Alanine Aminotransferase (ALT)
Aspartate Aminotransferase (AST)
Alkaline Phosphatase (ALP)
 γ -GlutamylTransferase (γ -GT)
Direct Bilirubin (D-Bil) DSA Method
Direct Bilirubin (D-Bil)VOX Method
Total Bilirubin (T-Bil) DSA Method
Total Bilirubin (T-Bil)VOX Method
Total Protein (TP)
Albumin (ALB)
Total Bile Acids (TBA)
Prealbumin (PA)
Cholinesterase (CHE)
 α -L-fucosidase (AFU)
5'-nucleotidase (5'-NT)

Renal Panel

Urea (UREA)
Creatinine (CREA) Modified Jaffé Method
Creatinine (CREA)Sarcosine Oxidase Method
Uric Acid (UA)
Carbon dioxide (CO₂)
Microalbumin
 β 2-Microglobulin (β 2-MG)
Cystatin C (CysC)
Retinol binding protein(RBP)

Immune Panel

Immunoglobulin A (IgA)
Immunoglobulin G (IgG)
Immunoglobulin M (IgM)
Complement C3 (C3)
Complement C4 (C4)

Diabetes Panel

Glucose (Glu) GOD-POD Method
Glucose (Glu) HK Method
Hemoglobin A1c (HbA1c)
Fructosamine (FUN)
 β -Hydroxybutyrate(β -HB)

Cardiac panel

Creatine Kinase (CK)
Creatine Kinase-MB (CK-MB)
Lactate Dehydrogenase (LDH)
 α -Hydroxybutyrate Dehydrogenase(α -HBDH)
High sensitive C-reaction protein(HS-CRP)

Inorganic & Anemia

Iron (Fe)
Ferritin (FER)
Transferrin (TRF)
Calcium (Ca)
Magnesium (Mg)
Phosphate Inorganic (P)
Unsaturated iron binding capacity (UIBC)
Glucose-6-phosphate dehydrogenase (G6PD)

Lipid Panel

Total Cholesterol (TC)
Triglycerides (TG)
HDL-Cholesterol (HDL-C)
LDL-Cholesterol (LDL-C)
Apolipoprotein A1 (ApoA1)
Apolipoprotein B (ApoB)
Lipoprotein(a) [Lp(a)]

Rheumatism Panel

C-reactive protein (CRP)
Rheumatoid Factor (RF)
Antibodies Against Streptolysin O (ASO)

Lung Panel

Adenosine Deaminase (ADA)
Angiotensin Converting Enzyme(ACE)

Pancreatitis Panel

α -Amylase (α -AMY)
Lipase (LIP)

BS-240

Clinical Chemistry Analyzer

Technical Specifications

System function

Automatic, Discrete, Random Access, Bench-top

STAT sample priority

Throughput: Up to 200 tests/hour, up to 400 tests/hour with ISE

Measuring principles: Absorbance photometry, Turbidimetry, Ion

Selective Electrode technology

Methodology: End-point, Fixed-time, Kinetic, optional ISE,
Single/Dual/ reagent chemistries,
monochromatic / bi-chromatic

Original system pack reagent ready to use

Close system and open system is optional

Reagent/Sample Handling

Reagent/Sample tray: 80 positions for reagents and 40 positions
for samples in 24-hour refrigerated
compartment (2~12 °C)

Reagent volume: 10~250µl, step by 0.5µl

Sample volume: 2~45µl, step by 0.1µl

Reagent/Sample probe: Liquid level detection, vertical collision
protection and inventory checking, reagent pre-warming

Probe cleaning: Automatic washing for interior and exterior
Carry over < 0.05%

Automatic sample dilution: Pre-dilution and post-dilution

Internal bar code reader (optional)

Used for sample and reagent programming

Be applicable to various bar code systems of Codabar、ITF
(Interleaved Two of Five)、code128、code39、UPC/EAN、
Code93

Capable to communicate with LIS in bi-directional mode

Reaction System:

Reaction rotor: Rotating tray, containing 40 cuvettes

Cuvette: Reusable, optical length 5mm

Reaction volume: 100~360µl

Operating temperature: 37 °C

Temperature fluctuation: ± 0.1 °C

ISE Module (optional)

Measuring K⁺, Na⁺, Cl⁻

Mixing Unit

Independent mixing bar

Cuvette Washing: Washing station with pre-warmed detergent
and water

Optical System

Light Source: Halogen-tungsten lamp

Wavelength: 8 wavelengths, 340nm、405nm、450nm、
510nm、546nm、578nm、630nm、670nm

Absorption range: 0~4.0 Abs (10mm conversion), resolution
0.0001Abs

Stray Light 5.6Abs

Control and Calibration

Calibration modes: Linear (one point, two points and
multi-points), Logit-Log 4P, Logit-Log 5P,
spline, exponential, polynomial, parabola

Control Rules: X-R, L-J, Westgard multi-rule, Cumulative sum
check, twin plot

Operation Unit

Operation system: Windows 8

Interface: RS-232

Working Conditions

Power Supply: 200~240V, 50/60Hz, ≤1000VA or 100~130V,
60Hz, ≤1000VA

Dimension: 690 mm (length) × 580 mm (depth) × 595 mm
(height)

Weight: 79 kg

Water Consumption: ≤ 4 L/H

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BS-360E

Chemistry Analyzer

Technical Specifications

System function

Automatic, Discrete, Random Access, Bench-top
STAT sample priority

Throughput: Up to 360 photometric tests per hour,
up to 540 T/H with ISE

Measuring principles: Absorbance photometry,
turbidimetry, ion selective electrode
technology

Methodology: End-point, Fixed-time, Kinetic,
optional ISE,
Single/Double reagent chemistries,
Mono-chromatic / bi-chromatic

Original system pack reagent ready to use
Close system and open system is optional

Reagent/Sample Handling

Reagent/Sample tray: 50 to 100 positions for reagents and 50
to 100 positions for samples in 24-hour
refrigerated compartment (2~12 °C)

Reagent volume: R1: 100~200µL, step by 0.5µL
R2: 10~200µL, step by 0.5µL

Sample volumne: 2~35µL, step by 0.1µL

Reagent/Sample probe: Liquid level detection, vertical collision
protection, inventory checking,
reagent pre-warming, optional clog
detection

Probe cleaning: Automatic washing for interior and
exterior
Carry over < 0.05%

Automatic sample dilution: Pre-dilution and post-dilution

Mixing Unit: Independent mixing bar

Built-in Bar Code Reader (Optional)

Used for sample and reagent programming
Be applicable to various bar code systems of Codabar, ITF
(Interleaved Two of Five), code128, code39, UPC/EAN, Code93
Capable to communicate with LIS in bi-directional mode

Reaction System

Reaction tray: 80 reusable cuvettes

Reaction volume: 100~360µL

Reaction temperature: 37 °C ± 0.1 °C

Cuvette Washing: Washing station with pre-warmed
detergent and de-ionized water

ISE Module (optional)

Measuring K+, Na+, Cl-

Optical System

Light Source: Halogen-tungsten lamp

Wavelength: 12 wavelengths, 340nm, 380nm, 412nm,
450nm, 505nm, 546nm, 570nm, 605nm,
660nm, 700nm, 740nm, 800nm

Absorption range: 0~3.5Abs, resolution 0.0001Abs

Stray Light: 4.9Abs

Control and Calibration

Calibration modes: K factor, Linear (two points and multi-
points), Logit-Log 4P, Logit-Log 5P, Spline,
Exponential, Polynomial, Parabola,
Logit-Log3P, Broken line

Control Rules: One key calibrator import function
Westgard multi-rule, Levey-Jennings,
Cumulative sum check, Twin plot

Operation Unit

Operation system: Windows 10

Interface: RS-232

Working Conditions

Power Supply: 200~240V, 50/60Hz, ≤1300VA or
100~130V, 60Hz, ≤1300VA

Dimension: 860 mm (length) × 660 mm (depth) ×
550 mm (height)

Weight: 115 kg

Water Consumption: ≤6.5 L/H



BS-360E

Chemistry Analyzer

Compact yet Robust

Mindray Building, Keji 12th Road South, High-tech Industrial Park, Nanshan, Shenzhen 518057, P.R. China Tel: +86 755 8188 8998 Fax: +86 755 26582680 E-mail: intl-market@mindray.com www.mindray.com	mindray healthcare within reach are registered trademarks or trademarks owned by Shenzhen Mindray Bio-medical Electronics Co., LTD. © 2015 Shenzhen Mindray Bio-Medical Electronics Co., Ltd. All rights reserved. Specifications subject to changes without prior notice. P/N:ENG-BS-360E-210285X8P-20170613
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Chemistry Reagents

Hepatic Panel
Alanine Aminotransferase (ALT)
Aspartate Aminotransferase (AST)
Alkaline Phosphatase (ALP)
γ-Glutamyl Transferase (γ-GT)
Direct Bilirubin (D-Bil) DSA Method
Direct Bilirubin (D-Bil) VOX Method
Total Bilirubin (T-Bil) DSA Method
Total Bilirubin (T-Bil) VOX Method
Total Protein (TP)
Albumin (ALB)
Total Bile Acids (TBA)
Prealbumin (PA)
Cholinesterase (CHE)

Renal Panel
Urea (UREA)
Creatinine (CREA) Sarcosine Oxidase Method
Uric Acid (UA)
Carbon Dioxide (CO2)
Microalbumin (MALB)
β2-Microglobulin (β2-MG)
Cystatin C (CysC)
Retinol Binding Protein (RBP)
Total Protein In Urine & CSF (TPUC)

Cardiac Panel
Creatine Kinase (CK)
Creatine Kinase-MB (CK-MB)
Lactate Dehydrogenase (LDH)
α-Hydroxybutyrate Dehydrogenase (α-HBDH)
High Sensitivity C-reactive Protein (HS-CRP)

Diabetes Panel
Glucose (Glu) GOD-POD Method
Glucose (Glu) HK Method
Hemoglobin A1c (HbA1c)
Fructosamine (FUN)
β-Hydroxybutyrate (β-HB)

Inorganic & Anemia
Iron (Fe)
Ferritin (FER)
Transferrin (TRF)
Calcium (Ca)
Magnesium (Mg)
Phosphate Inorganic (P)
Unsaturated Iron Binding Capacity (UIBC)
Glucose-6-phosphate Dehydrogenase (G6PD)

Lipid Panel
Total Cholesterol (TC)
Triglycerides (TG)
HDL-Cholesterol (HDL-C)
LDL-Cholesterol (LDL-C)
Apolipoprotein A1 (ApoA1)
Apolipoprotein B (ApoB)
Lipoprotein(a) (Lp(a))

Immune Panel
Immunoglobulin A (IgA)
Immunoglobulin G (IgG)
Immunoglobulin M (IgM)
Immunoglobulin E (IgE)
Complement C3 (C3)
Complement C4 (C4)

Rheumatism Panel
C-reactive Protein (CRP)
Rheumatoid Factor (RF)
Antibodies Against Streptolysin O (ASO)

Pancreatitis Panel
α-Amylase (α-AMY)
Lipase (LIP)

Lung Panel
Adenosine Deaminase (ADA)
Angiotensin Converting Enzyme (ACE)

BS-430
Clinical Chemistry Analyzer

Technical Specifications

System Function:	Automatic, discrete, random access, STAT sample priority
Throughput:	420 photometric tests per hour, up to 626 tests per hour with ISE
On-board tests:	90 photometric tests + 3 ISEs + 3 serum indices

Sample Handling	
Sample tray:	102 sample positions,
Sample volume:	1.5μL~45μL, step by 0.1μL
Sample probe:	Liquid level detection, collision protection, clog detection (optional), and auto-dilution, automatic hemolysis Carry-over≤0.05μL

Reagent Handling	
Reagent tray:	92 reagent positions with 24-hour refrigeration 2~8°C,
Reagent volume:	10μL~200μL, step by 0.5μL
Reagent probe:	Liquid level detection, collision protection, bubble detection, concentrated reagent with auto-dilution

Built-in Bar Code Reader (optional):	
	Sample and reagent bar code readers support Codabar, ITF (Interleaved Two of Five), Code128, Code39, UPC/EAN and code93, Capable to connect with LIS in Bi-directional mode

Reaction System	
Cuvettes:	93 reusable cuvettes with 8-step auto-washing
Reaction temperature:	37 ± 0.1°C
Reaction volume:	100~300μL
Mixing system:	2 independent mixers with speed detection

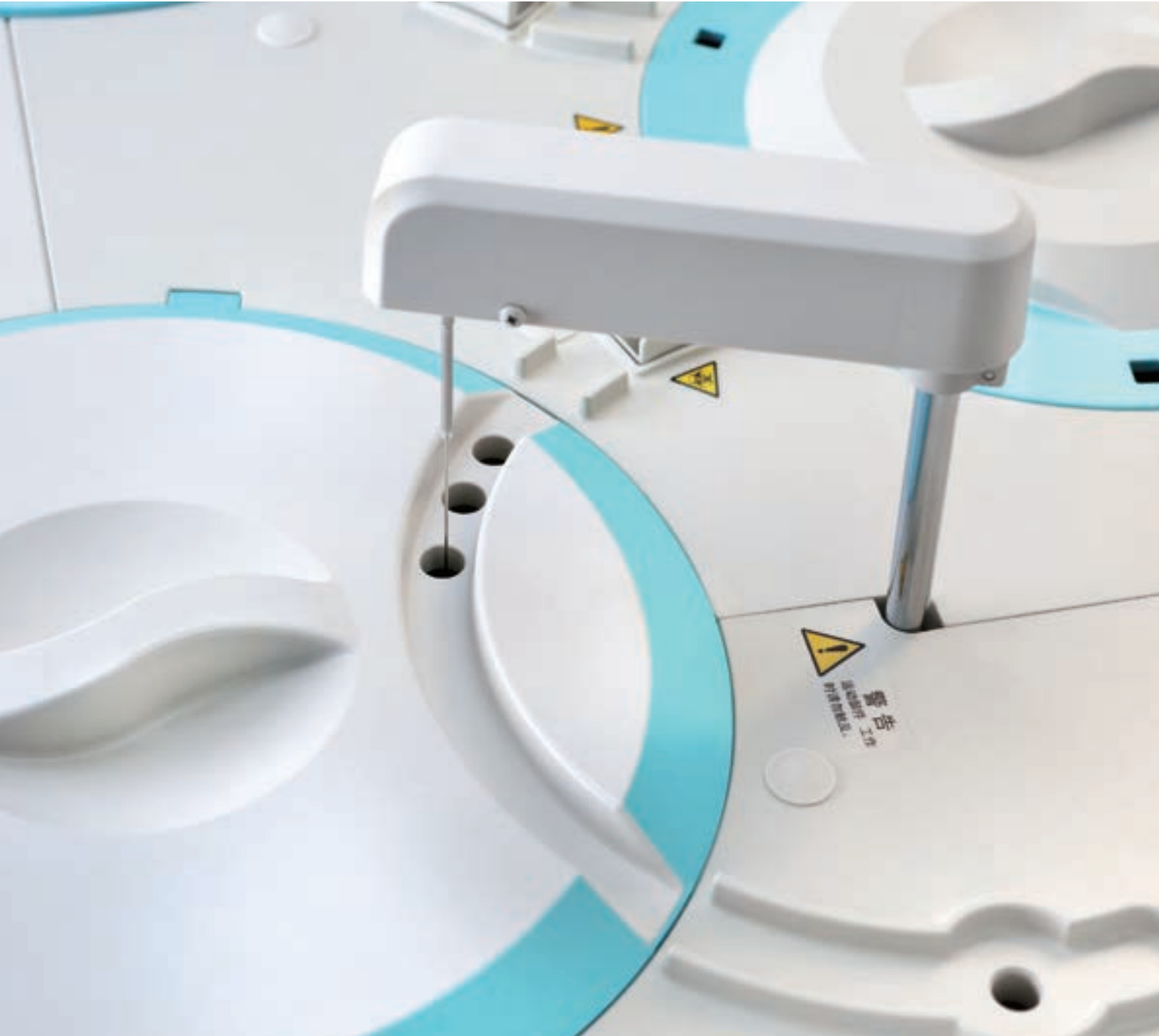
Optical System	
Light source:	12V 20W tungsten-halogen lamp
Photometer:	Grating system
Wavelength:	340nm, 380nm, 412nm, 450nm, 505nm, 546nm, 570nm, 605nm, 660nm, 700nm, 740nm, 800nm
Absorbance range:	0~3.5A

ISE Module (Optional):	K ⁺ , Na ⁺ , Cl ⁻
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Control and Calibration:	
Calibration mode:	K factor, Linear (two points and multi-points), Logit-Log 4P, Logit-Log 5P, spline, exponential, polynomial, parabola, Logit-log3P, broken line Westgard multi-rule, Levey-Jennings, Cumulative sum check, Twin plot
Control rules:	

Operation Unit:	
Operation system:	Windows 10
Interface:	RS-232 serial port

Working Conditions	
Power supply:	220V-240V, 50/60Hz, ≤1000VA or 110V-130V, 60Hz, ≤1000VA
Water consumption:	≤20 L/H
Dimension:	1050 mm (W) * 720 mm (D) * 1150 mm (H)
Weight:	≤200 Kg



BS-430
Clinical Chemistry Analyzer



Precise pipetting system

Highly polished probes are equipped with multiple technologies to ensure the accuracy and reliability. The minimum sample volume is as low as 1.5μL.



Efficient washing system

Interior and exterior washing reduces the carry-over of sample probe to be less than 0.05%. Pre-warmed de-ionized water and detergent ensures the cleanliness of cuvettes.



Intelligent mixing system

Stepper motors with speed monitoring optimizes the mixing effect.



Advanced optical system

The technology-enhanced grating photometer effectively reduces the stray light and enhances the measuring accuracy of test results. The dot light source lowers the minimum reaction volume to 100μL and maximizes the cost efficiency. Prolong the service life of the lamp by auto sleep function.



Reliable heating system

The maintenance-free direct solid heating technology stabilizes the reaction temperature at 37°C. 24-hour refrigeration maintains the temperature of reagent compartment between 2~8°C.



New software platform

Inherited from Mindray high-end products, the user-friendly software integrates more practical functionalities and makes itself more easy-to-use. The step-by-step maintenance guide allows the maintenance easier and more comprehensive.

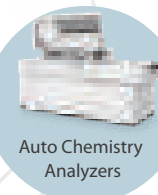


Total solution for clinical chemistry

Dedicate to providing a total solution for clinical chemistry with traceability to ensure the ultimate accuracy of test results.



Original Quality Controls



Auto Chemistry Analyzers



Original Reagents



Original Calibrators with Traceability

Mindray Solution for Clinical Chemistry



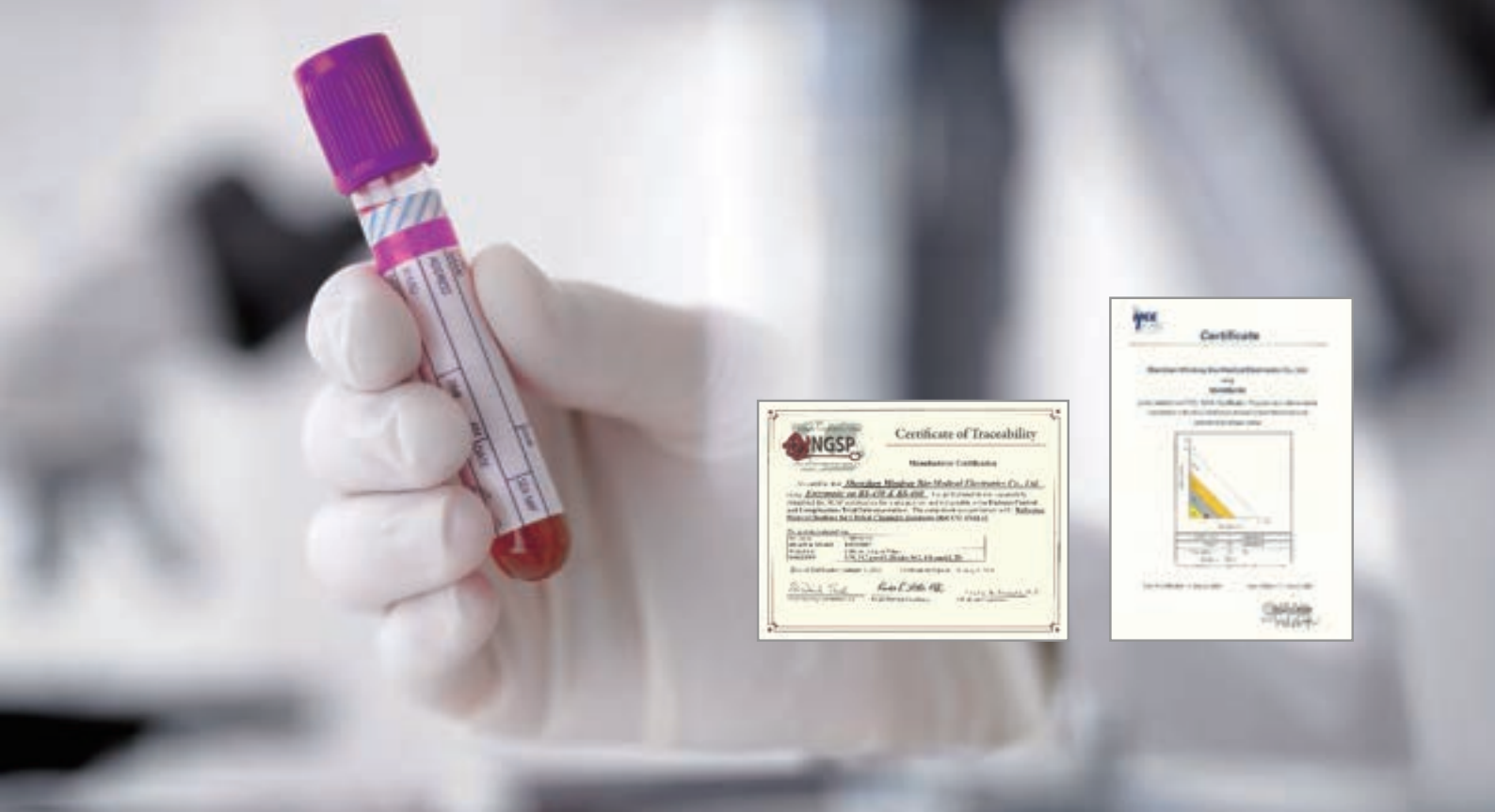
Optimized integration of the whole system

All parameters are optimized during the integration to maximize the reliability of test results.



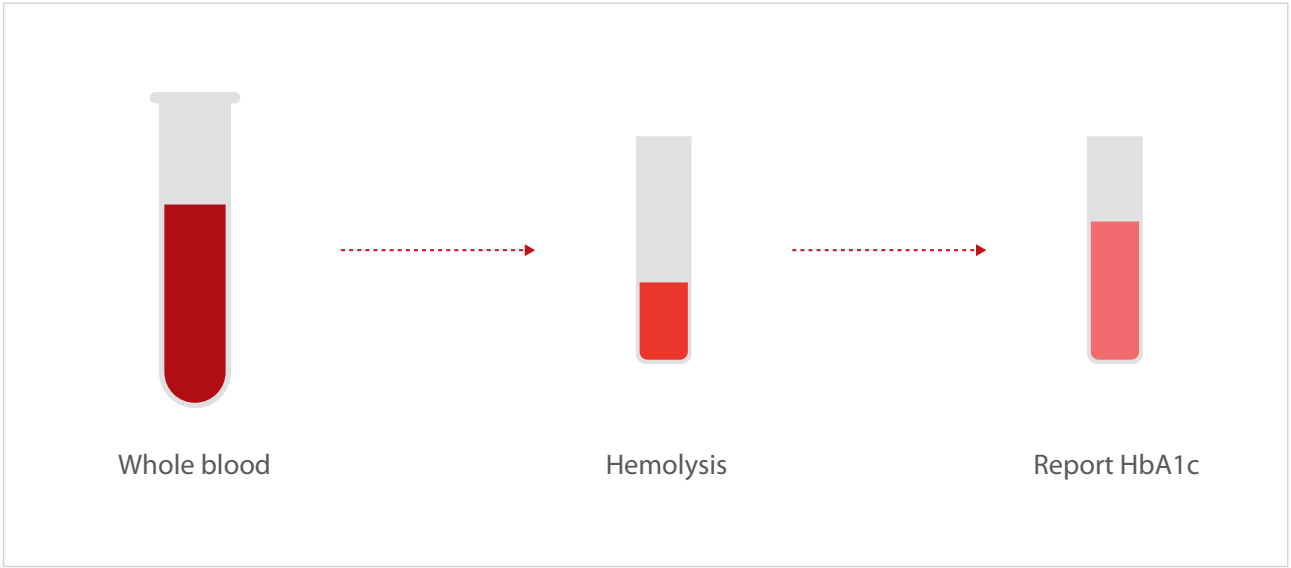
Whole blood HbA1c

The whole blood HbA1c technology allows HbA1c test without manual pretreatment.



Whole blood HbA1c Technology

BS-430 chemistry analyzer utilizes whole blood HbA1c technology, which allows onboard automatic hemolysate preparation for whole blood samples, thus achieving shorter turnaround time (TAT) and eliminating any biohazardous risks or any errors by manual operation.



Mindray HbA1c assays of enzymatic method, with application of specified protease and Fructosyl Peptide Oxidase (FPOX). The enzymatic method is proven to have high precision, specificity and better performance to avoid interference from hemoglobin variants, and it is traceable to IFCC reference methods.

BS-600M

Chemistry Analyzer

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Technical Specifications

System Function:

Throughput: 600 photometric tests per hour, up to 800 tests per hour with ISE

Measuring principles: Absorbance Photometry, Turbidimetry

On-board tests: up to 77 photometric tests + 3 ISEs+ 3 serum indices

Methodology: End-point, Fixed-time, Kinetic, ISE

Sample Handling:

SDM: 120 samples by 12 racks, sample continuous loading, STAT in priority

Sample volume: 1.5~45μL, step at 0.1μL

HbA1c sample: Whole blood for HbA1c test

Sample probe: Liquid level detection, clot detection and collision protection

Reagent Handling:

Reagent tray: 80 positions with cooling system (2~8°C)

Reagent volume: 10~200μL, step at 0.5μL

Reagent probe: Liquid level detection, bubble detection and collision protection

Built-in Bar Code Reader:

Sample and reagent bar code readers support Codabar, ITF (Interleaved Two of five), Code 128, Code 39, UPC/EAN and Code 93;

Capable to connect with LIS in the bi-directional mode

Reaction System:

Reaction volume: 70~300μL

Reaction temperature: 37°C with 0.1°C fluctuation

Reaction cuvettes: 124 reusable cuvettes with 8-step auto wash

Optical System:

Light source: Tungsten-halogen lamp

Photometer: Grating photometer

Wavelength: 16 wavelengths (340nm, 380nm, 412nm, 450nm, 480nm, 505nm, 546nm, 570nm, 605nm, 630nm, 660nm, 700nm, 740nm, 770nm, 800nm, 850nm)

Absorbance range: 0~3.5Abs(10mm conversion)

Control and Calibration:

Calibration mode: Linear(one-point, two point and multi-point), Logit-Log 4P, Logit-Log 5P, Spline, Exponential, Polynomial, Parabola

Control rules: Westgard multi-rule, Twin plot

Operation Unit:

Operation system: Touch screen(optional), Windows 10(64bit)

Interface: RS-232, Network Port, USB/ parallel port

Working Conditions:

Power Supply: 200~240V, 50/60Hz, 1700VA
or 110/115V, 60Hz, 1700VA

Temperature: 15~30°C

Humidity: 35~85%

Dimension: 1380mm(length)*860mm(width)*1200mm(high)

Weight: 350kg



BS-600M

Chemistry Analyzer

Powerful yet Efficient



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P/N:ENG-BS-600M-210285X8P-20250117

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healthcare within reach

BS-600M

Powerful yet Efficient



Flexible Sample Management

- Sample batch transfer
- Continuous sample loading by racks
- STAT Priority
- Quick rerun



HbA1c Tests with Whole Blood

- NGSP certified and IFCC traceable
- Onboard hemolysis without sample preparation
- No significant interference from Hb variants
- Lower detection limit of Hb, less rerun rate



Integrated ISE Module

- 1 blood tube for electrolytes and photometric chemistry tests
- long-life of ISE electrodes
- Easy operation and maintenance



Reliable Testing System

- World-class and excellent sigma metric performance with original reagent
- Intelligent abnormal reaction detection, alarming and auto-rerun to minimizes erroneous results

Small Footprint :

1.2m²

Photometric 600T/H
up to 800T/H with ISE

Flexible Sample Management

Continuous Sample Loading

Sample continuous loading by racks
Up to 120 sample positions
long walk-away time

Quick Start for Sample Rerun

Auto start for sample test
Automatic priority for STAT and rerun

STAT Priority

Dedicated STAT position, 1 minute aspiration
Quick report ISE+CO₂ results in 7 minutes



Smart Dilution

Patented smart dilution function
Faster report

HbA1c Tests with Whole Blood



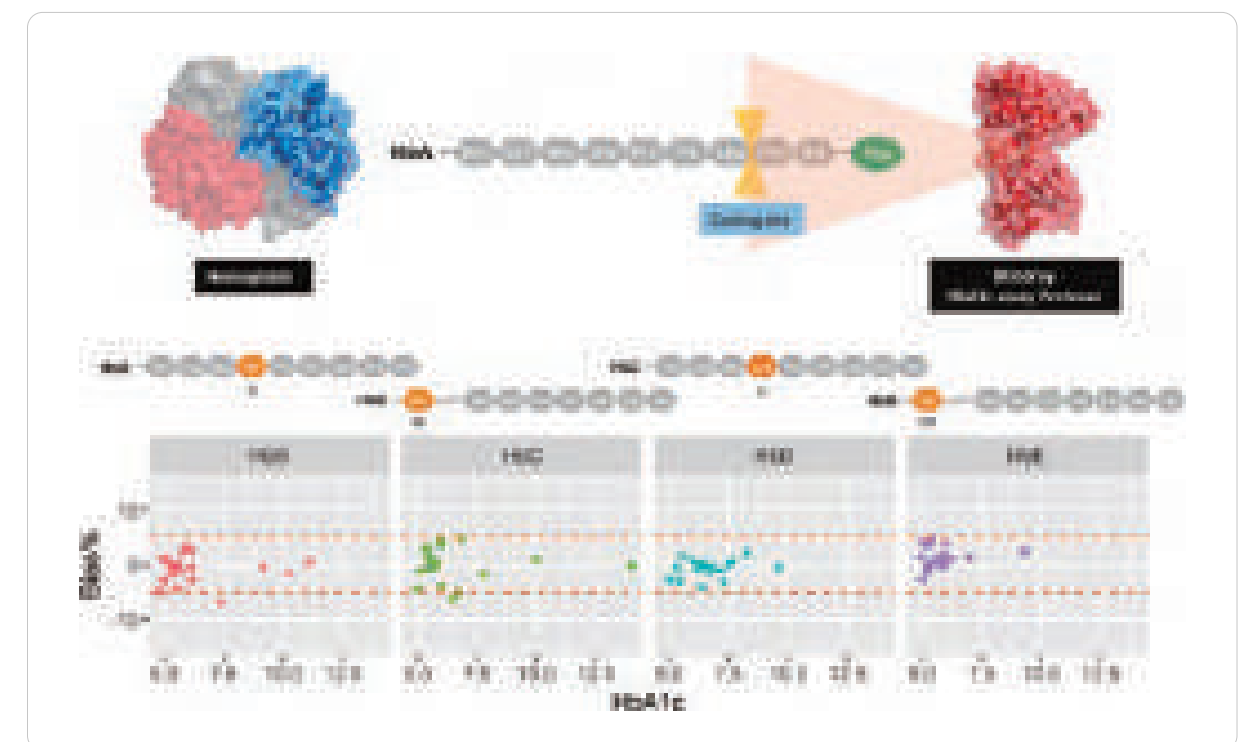
Onboard hemolysis with whole blood
to improve working efficiency

No manual pretreatment to reduce
biohazardous risks and human errors

120 T/H for HbA1c test to shorten
turn-around-time

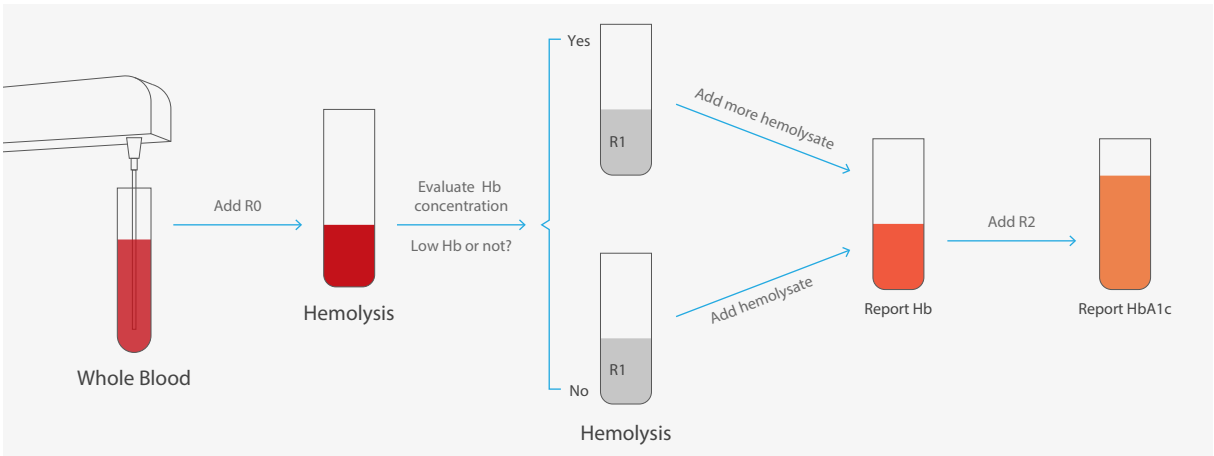
Mindray HbA1c reagent with enzymatic method can specifically detect glycated N-terminal amino acids from the hemoglobin beta-chains, which can effectively avoid interference from Hb variants (HbS, HbC, HbE and HbD) and other Hb derivatives (labile HbA1c, carbamylated Hb, and acetylated Hb).

Mindray enzymatic HbA1c gives reliable and cost efficient result with the first measurement and reduce further confirmations.



Lower Hb Detection Limit for HbA1c Test

Evaluate the Hb concentration in the process of hemolysis and start sample increasement tests in advance for low Hb concentration samples. This function can lower the detection limit and expand linearity range Hb to reduce the rerun rate and reagent waste for anemia samples.



Integrated ISE Module

Built-in ISE Module

- Report Na^+ , K^+ , Cl^-
- 1 blood tube for electrolytes and photometric chemistry tests



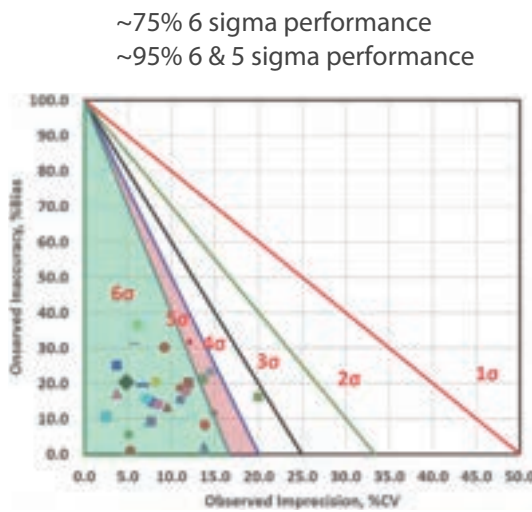
Efficient and Easy operation

- Up to 300 tests per hour
- Up to 9 months of Na/K/Ref electrodes service time
- Automatic calibration
- Low consumption
- Easy operation and maintenance

Reliable Testing System

PDR Optical Platform

- Panoramic dynamic real-time monitoring & signal traceback
- Eliminate interference and noise in the reaction process
- Stably improve the accuracy of results



High Level Sigma Metric Performance

- Original reagents and validated application protocol lower the inaccuracy and imprecision which contributes to achieving world-class and excellent sigma metric performance.
- Higher sigma level system can help laboratories offer high level of quality at reduced cost and enhance clinician confidence and satisfaction.

Chemistry Reagents

Hepatic Panel
Alanine Aminotransferase (ALT)
Aspartate Aminotransferase (AST)
Alkaline Phosphatase (ALP)
γ-Glutamyl Transferase (γ-GT)
Direct Bilirubin (D-Bil) DSA Method
Direct Bilirubin (D-Bil) VOX Method
Total Bilirubin (T-Bil) DSA Method
Total Bilirubin (T-Bil) VOX Method
Total Protein (TP)
Albumin (ALB)
Total Bile Acids (TBA)
Prealbumin (PA)
Cholinesterase (CHE)
α-L-fucosidase (AFU)

Renal Panel
Urea (UREA)
Creatinine (CREA) Modified Jaffé Method
Creatinine (CREA) Sarcosine Oxidase Method
Uric Acid (UA)
Carbon Dioxide (CO2)
Microalbumin (MALB)
β2-Microglobulin (β2-MG)
Cystatin C (CysC)
Retinol Binding Protein (RBP)
Total Protein In Urine & CSF (TPUC)

Cardiac Panel
Creatine Kinase (CK)
Creatine Kinase-MB (CK-MB)
Lactate Dehydrogenase (LDH)
α-Hydroxybutyrate Dehydrogenase (α-HBDH)
Full Range C-reaction Protein(FR-CRP)
Myoglobin (MYO)
D-Dimer (D-Dimer)

Diabetes Panel
Glucose (Glu) GOD-POD Method
Glucose (Glu) HK Method
Hemoglobin A1c (HbA1c)
Fructosamine (FUN)
β-Hydroxybutyrate (β-HB)

Inorganic & Anemia
Iron (Fe)
Ferritin (FER)
Transferrin (TRF)
Calcium (Ca)
Magnesium (Mg)
Phosphate Inorganic (P)
Unsaturated Iron Binding Capacity (UIBC)
Glucose-6-phosphate Dehydrogenase (G6PD)

Lipid Panel
Total Cholesterol (TC)
Triglycerides (TG)
HDL-Cholesterol (HDL-C)
LDL-Cholesterol (LDL-C)
Apolipoprotein A1 (ApoA1)
Apolipoprotein B (ApoB)
Lipoprotein(a) (Lp(a))

Immune Panel
Immunoglobulin A (IgA)
Immunoglobulin G (IgG)
Immunoglobulin M (IgM)
Immunoglobulin E (IgE)
Complement C3 (C3)
Complement C4 (C4)

Rheumatism Panel
C-reactive Protein (CRP)
Rheumatoid Factor (RF)
Antibodies Against Streptolysin O (ASO)

Pancreatitis Panel
α-Amylase (α-AMY)
Lipase (LIP)

Lung Panel
Adenosine Deaminase (ADA)
Angiotensin Converting Enzyme (ACE)

BS-800M
Clinical Chemistry Solution

Technical Specifications

System Function:	
Throughput:	800 photometric tests per hour for standalone unit and single analytical unit of modular system, up to 1200 tests per hour with ISE From 800 to 2400 tests per hour for modular system with different configurations
On-board tests:	68 photometric tests + 3 ISEs + 3 serum indices
Sample Handling:	
Sample tray:	140 positions, including 25 cooled positions for calibrators and controls
SDM:	300 samples by 30 racks
Sample volume:	1.5~35 μL, step at 0.1μL
Sample probe:	Liquid level detection, clot detection and collision protection
Reagent Handling:	
Reagent tray:	120 positions in coaxial disk for R1, R2, R3 and R4
Reagent volume:	15~300 μL, step at 0.5 μL
Reagent probe:	Liquid level detection, bubble detection and collision protection
Built-in Bar Code Reader (optional):	Sample and reagent bar code readers support Codabar, ITF (Interleaved Two of Five), Code128, Code39, UPC/EAN and Code93; Capable to connect with LIS in the bi-directional mode
Reaction System:	
Reaction volume:	100~360 μL
Reaction temperature:	37°C with 0.1°C fluctuation
Reaction cuvettes:	165 glass cuvettes with 8-step auto wash
Optical System:	
Light source:	Tungsten-halogen lamp
Photometer:	Grating photometer
Wavelength:	340nm, 380nm, 412nm, 450nm, 505nm, 546nm, 570nm, 605nm, 660nm, 700nm, 740nm, 800nm
Absorbance range:	0~3.4Abs (10mm conversion)
ISE Module (Optional):	
Principle:	Indirect K ⁺ , Na ⁺ and Cl ⁻ , with 22 μL sample aspiration
Control and Calibration:	
Calibration mode:	Linear (one-point, two-point and multi-point), Logit-Log 4P, Logit-Log 5P, Spline, Exponential, Polynomial, Parabola
Control rules:	Westgard multi-rule, Twin plot
Operation Unit:	
Operation system:	Windows® XP Professional/Home SP2 or above, Windows® 7, Windows® 8, Windows® 10
Scalability:	Upgradable to SAL 6000 modular system, a seamless integration of clinical chemistry module and chemiluminescence immunoassay module

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healthcare within reach

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BS-800M
Clinical Chemistry Solution



BS-800 Modular System

Clinical Chemistry Solution

Total Solution for Clinical Chemistry

BS-800 Modular System combines innovation and high performance into an integrated solution. With a scalable platform, an ever more complete line of clinical chemistry reagents, as well as calibrators and controls, our new solution is tailor-made to customers’ needs. Our innovative technologies also ensure the solution is accurate, convenient and cost-efficient.

Modular System

BS-800

Throughput: 800T/H, 1200T/H with ISE

Sample capacity: 140

Reagent capacity: 68



BS-800M

Throughput: 800T/H, 1200T/H with ISE

Sample capacity: 440

Reagent capacity: 68



Throughput: 1600T/H, 2400T/H with ISE

Sample capacity: 580

Reagent capacity: 136



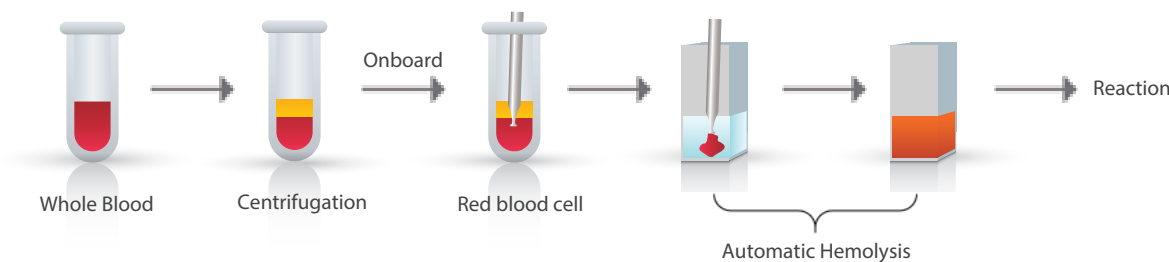
Upgradable to SAL 6000

One integrated workstation for both clinical chemistry and chemiluminescence immunoassay



HbA1c Smart-sampling Technology

BS-800 modular system utilizes HbA1c smart-sampling technology, which allows onboard hemolysis for whole blood samples, thus achieving shorter turnaround time (TAT) and eliminating any biohazardous risks or any errors by manual operation.



Mindray HbA1c assays of enzymatic method, with application of specified protease and Fructosyl Peptide Oxidase (FPOX), has a good correlation with HPLC method. The enzymatic method is proven to have high precision, specificity and better performance to avoid interference from hemoglobin variants, and it is traceable to IFCC/NGSP reference methods.

Accurate



- **High pipetting precision**
15~300 μL reagent with step at 0.5 μL , 1.5~35 μL sample with a step at 0.1 μL .



- **Coolant circulation reagent refrigeration**
Ensure a stable refrigeration temperature at 2~8°C in the reagent disk.



- **Direct solid-heating system**
Fast heating of reaction disk while the temperature is kept at 37°C with 0.1°C fluctuation.



- **Effective mixing unit**
Independent reagent and sample mixing units; three-head mixing bars speed up process performance. The two-step washing significantly reduces potential contamination.



- **Intelligent clot detection**
Can detect and differentiate between a clot, partial clot, and bubbles ensure precise sample aspiration.

Preventive



- **Collision protection**
Vertical, horizontal sample and reagent probes collision protection.



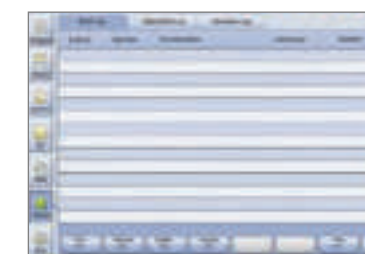
- **Waterproof design**
In the event of liquid splash, the liquid is redirected away from all electronic components with the specially designed cover.



- **Maintenance guide**
Easy to follow maintenance procedures, with embedded troubleshooting guides. Users may resolve issues quicker.



- **Covered system**
The pipetting system is covered to ensure safety. The sample disk is flexible to be partially covered only allowing convenient access during sample loading.



- **Warning log**
Extensive log lists alerts operator and service personnel to maintain the system.



Innovative

Coaxial reagent disk

Unique coaxial reagent disks design making reagent replacement time saving and convenient. The semi-opened cover ensures operator safety during operation.



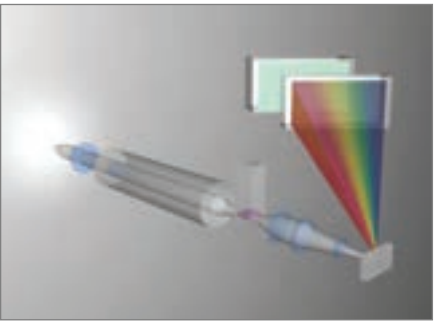
Reagent bubble detection

System provides sufficient reagent aspiration through liquid level and reagent bubble detection technology.



Dot light source

The dual focus of forward lighting is possible via the dual-diaphragm and dual-lens technology which creates a high intensity focused light. Thus, lowering the minimum reaction volume and enhancing the measuring accuracy.



Water quality monitor

The system employs resistance principle. It provides premium DI Water quality for assay analysis and reduces potential contamination.



Cost-efficient

Large capacity

Total sample capacity is 440 (140 positions on the sample tray and 300 positions on the Sample Delivery Module). The Sample Delivery Module automatically delivers samples to the analytical unit. The large sample capacity coupled with 165 washable permanent cuvettes allows the operator hours of walk-away time.



Low reagent consumption

100 µL minimum reaction volume reduces reagent cost. Uniquely designed reagent bottles maximize reagent usage and reduce residual volume.



One key STAT

Dedicated One-Key STAT test button, STAT sample position, and STAT sample rack provide prompt response to the highest priority samples.



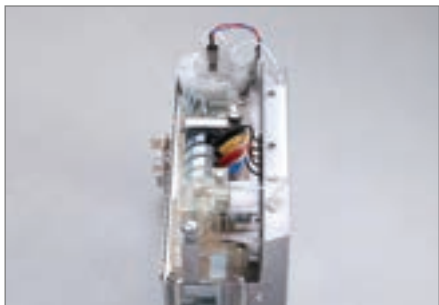
Continuous reagent loading and unloading

Two separate buttons independently control each reagent carousel; it ensures safe and continuous reagent replacement during testing.



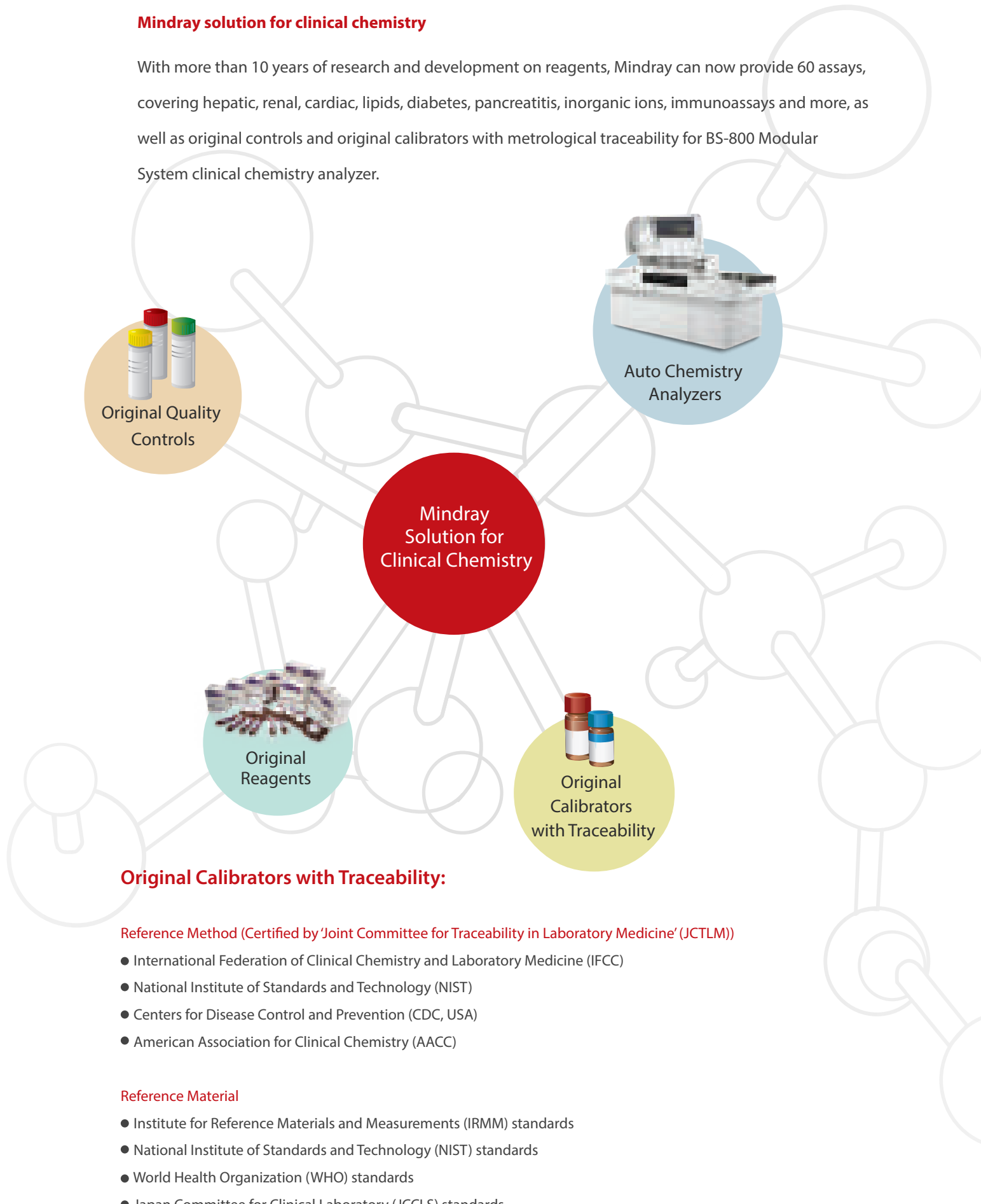
Indirect ISE

Low sample volume, high ISE analysis throughput, and cost-effective electrodes.



Mindray solution for clinical chemistry

With more than 10 years of research and development on reagents, Mindray can now provide 60 assays, covering hepatic, renal, cardiac, lipids, diabetes, pancreatitis, inorganic ions, immunoassays and more, as well as original controls and original calibrators with metrological traceability for BS-800 Modular System clinical chemistry analyzer.



Original Calibrators with Traceability:

- Reference Method (Certified by 'Joint Committee for Traceability in Laboratory Medicine' (JCTLM))
- International Federation of Clinical Chemistry and Laboratory Medicine (IFCC)
 - National Institute of Standards and Technology (NIST)
 - Centers for Disease Control and Prevention (CDC, USA)
 - American Association for Clinical Chemistry (AACC)

Reference Material

- Institute for Reference Materials and Measurements (IRMM) standards
- National Institute of Standards and Technology (NIST) standards
- World Health Organization (WHO) standards
- Japan Committee for Clinical Laboratory (JCCLS) standards

GH-900Plus HbA1c Analyzer

TECHNICAL SPECS

Methodology	High - Performance Liquid Chromatography (HPLC)
Test Modes	Variant Mode (A1c\E\D\S\C)
Test Range	3% - 18%
Precision	CV ≤ 1.5%
Test Speed	130 Secs / Test
Sample Type	Venous Blood, Finger Peripheral Blood, Lyophilized Whole Blood 10μL(whole blood), 400μL (Diluted blood)
Auto Sample Station	5 Positions/Rack
Photometer	415nm + 500nm Detector
Filter	≥ 400T
Display	10.1 " TFT True Color LCD Touch Screen
Software	Linux Software with Self - Diagnosis to Monitor and Detect System Errors
Reagent Kit	Eluent A, Eluent B, Hemolysin L, Calibrator; QC Material
Information Input	Scanner or Touch Keypad
Storage	4000 Sample Results
Connection	USB, LAN, LIS Compatible
Printer	Thermal Printer
Operation	Temperature 10 ~ 30 °C (50 ~ 86 °F)
Humidity	≤ 80%
Power	AC 100-240V 50/60HZ 120VA
Dimensions	450mm(L)*360mm(W)*540mm(H)
Weight	32.8KG



GH-900Plus HbA1c Analyzer

Lifotronic Technology Co., Ltd.

Address: Unit A,4th Floor, Building 15, Yijing Estate, No. 1008 Songbai Road, Nanshan District, Shenzhen City, Guangdong Province, 518055, P.R.China

Tel: 86-755-29060026 **Fax:** 86-755-29060036

Email: inter-sales@lifotronic.com **Web:** en.lifotronic.com

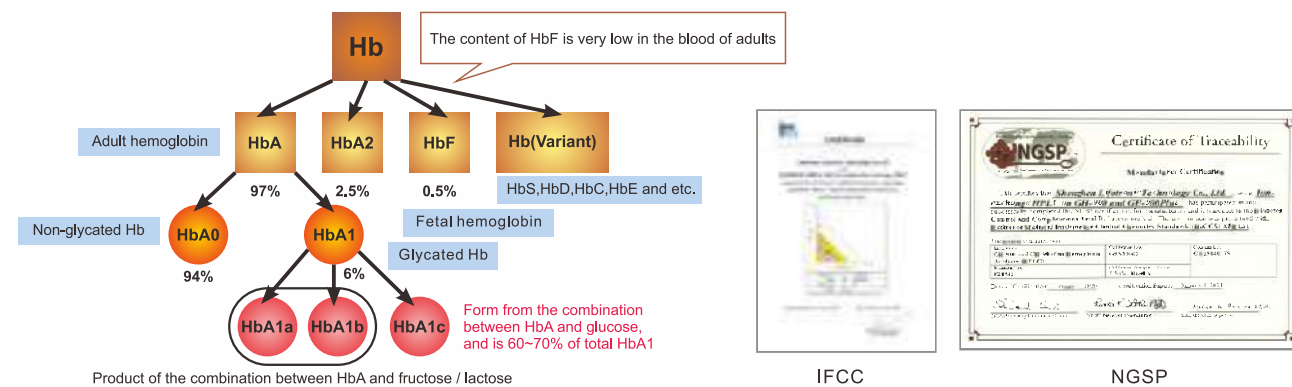
en.lifotronic.com

GH-900Plus HbA1c Analyzer



Lifotronic fully automated GH-900Plus HbA1c Analyzer supports fast HbA1c results output in 130 seconds without Hb variant interference. It provides the outstanding solution for reliable diabetic monitoring. No sample preparation and walk-away operation.

The Elements of Hemoglobin



Gold Standard of Diabetes Diagnose

Glycosylated hemoglobin (HbA1c) is widely recognized as a Gold Standard to monitor diabetes, which can indicate the average plasma glucose concentration over 8 ~ 12 weeks.

HPLC Methodology

High-Pressure Liquid Chromatography (HPLC), to separate HbA1c directly with measuring the absorbance points continually to form chromatogram. Using normal distribution curve fitting auto-iterative algorithm to get precise HbA1c testing result, excluding interference of variant and unstable hemoglobin like LA1c. Standard Analysis Mode will report HbA1a, HbA1b, HbF, LA1c, HbA1c, HbA0 peak areas and percentage. And the result also includes IFCC, NGSP and ADAG value for diverse client needs.

HPLC Technology – Gold Standard Methodology

- NGSP and IFCC Certified
- HbA1c Results within 130 Seconds
- 5 samples loading capacity, suitable for medium to small labs

Fully Automated - To Minimize Operation Steps

- No sample preparation
- Fully automated system cleaning after test
- External barcode scanner for sample identification

Precise and Reliable – To Serve You Consistently

- Inter measuring $CV \leq 1.5\%$ & Intra measuring $CV's \leq 3\%$
- Superior quality chromatographic resolution to eliminate interferences

Dual Wavelength Detection – To Avoid Interference

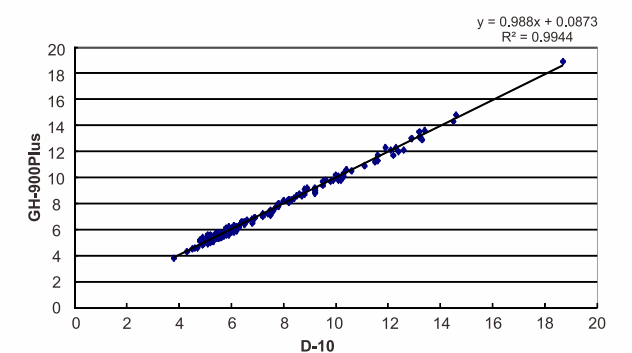
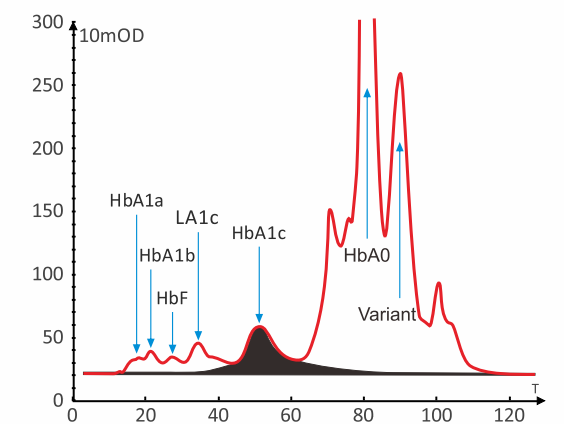
- To avoid the reagent peak interference
- More anti-interference abilities, the mutation factor interference to the peak can be easily counteracted
- To eliminate the nonspecific absorption of hemoglobin

Degasser – For Better Result Accuracy

- More Stable Pressure, More Accurate Flow Rate
- To Reduce Background Absorption and Improve Detection Sensitivity
- To Improve the Separation Effect of Column and Prolong Its Lifetime

Compact Size – To Minimize Space Requirements

- Small Footprint Reduces Bench Space Needed
- Most compact fully automated HPLC system



Correlation between GH-900Plus and D-10

BC-760 & BC-780

Auto Hematology Analyzer with ESR



Key Specifications

Principles
WBC (IMG/Neu/Mon/Lym/Eos/Bas), NRBC/RET*, PLT-H/PLT-O*/IPF:
SF Cube ^ Cell Analysis Technology
^S: Scatter; F: Fluorescence; Cube: 3D analysis

RBC, PLT
Focusing Flow-DC Impedance Method

HGB
Colorimetric method

ESR
Photometric method

Number of measuring parameters (whole blood): 109
Number of reportable parameters: 41
WBC Bas# Bas% Neu# Neu% Eos# Eos% Lym# Lym% Mon#
Mon% IMG# IMG% RET%* RET#* RHE* IRF* LFR* MFR* HFR*
RBC HGB MCV MCH MCHC RDW-CV RDW-SD HCT NRBC#
NRBC% PLT PLT-I PLT-H PLT-O* MPV PDW PCT P-LCR P-LCC
IPF ESR
Number of research parameters: 68*

Number of measuring parameters (body fluid): 18
Number of reportable parameters: 7
WBC-BF TC-BF# MN# MN% PMN# PMN% RBC-BF
Number of research parameters: 11

Sample volume
CD (whole blood): 25ul CD+ESR
(whole blood): 160ul Predilute: 20ul

Data storage capacity
Up to 150,000 results including numeric and graphical
information *

Throughput
CD 80t/h CDR 45t/h CD+ESR 40t/h

Analysis Mode

Sample Type	Analysis Mode
Whole blood	CBC, CBC + DIFF, CBC + DIFF+RET*, CD + ESR, CDR + ESR*, CD/WBC-3X, CDR/PLT-5X*, and other modes
Predilute	CBC, CBC + DIFF, CDR*, and other modes
Body fluid	CBC + DIFF

Physical Specifications

Dimensions
840D x 655W x 600H mm

Weight
≤70.6Kg

Voltage
100V-240V~ (±10%)

Frequency
50Hz/60Hz (±1Hz)

Power input
600VA

External output
LANx1 , USB x 4 (Specifications: DC 5V; 500mA;
USB2.0 x 3; USB3.0 x 1)

Normal Operating Environment

Ambient temperature:
10℃ ~ 35℃

Relative humidity:
30% ~ 85%

Atmospheric pressure:
70.0kPa ~ 106.0kPa^
^Note : Required altitude for normal operation:
-400m ~ +3000m

Performance

Parameter	Linearity Range	Precision	Carryover
WBC	0-500×10 ⁹ /L	≤2.5% (≥4.51×10 ⁹ /L)	≤ 1.0%
RBC	0-8.60×10 ¹² /L	≤1.5% (≥3.5×10 ¹² /L)	≤ 1.0%
HGB	0-260g/L	≤1.0% (110-180g/L)	≤ 1.0%
HCT	0-75%	≤1.5% (30%-50%)	≤ 1.0%
PLT*	0-5000×10 ⁹ /L	≤ 1.5(SD) (≤20×10 ⁹ /L)^ ≤ 2.5% (≥100×10 ⁹ /L)^	≤ 1.0%
RET*	0-0.8×10 ¹² /L	≤15% (RBC ≥ 3.00×10 ¹² /L RET%: 1.00% ~ 4.00%)	≤ 1.0%
ESR		≤1.8(SD)(0~20mm/h)	≤ 1.0%
Note: Applicable only to CDR/PLT-O 5x and CR/PLT-O 5x models			

Items marked with an aerisk (*) apply only to BC-780

BC-760 & BC-780

Auto Hematology Analyzer with ESR

Above and Beyond



www.mindray.com

P/N:ENG-BC-760 & BC-780 ESR-210285X6P-20220115
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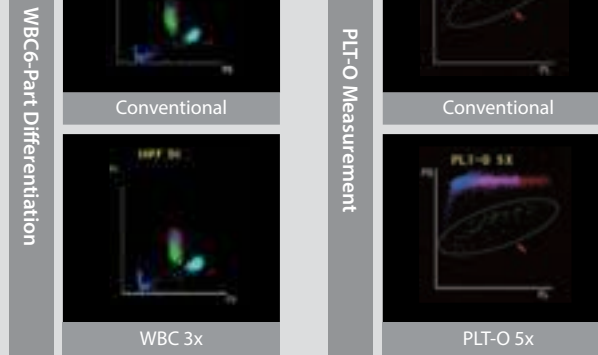
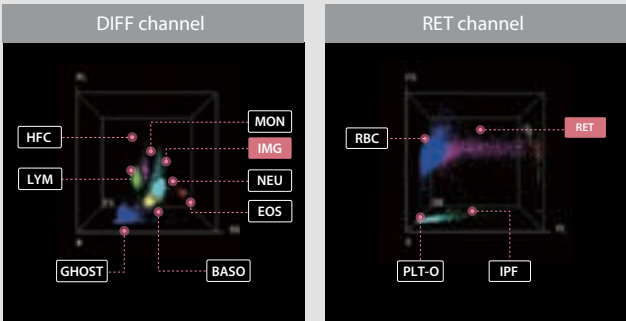


••• Above your expectations

► SF Cube fluorescent technology allows reliable counting and differentiation of abnormal samples

— More refined and reliable cell differentiation

3D fluorescent analysis technology allows reliable differentiation of immature and other abnormal cells, such as immature granulocytes (IMGs), reticulocytes (RETs*), and immature platelet fraction (IPF).



— More reliable measurements for low-value samples

The BC-760 & BC-780 3D fluorescence analysis platform is designed with multiple counting WBC-3x and PLT-O 5x analysis modes to help ensure higher reliability for low-value WBC and PLT samples. In addition, the PLT de-aggregation function can reduce the cumbersome review work.

— More comprehensive alarm messages for abnormalities

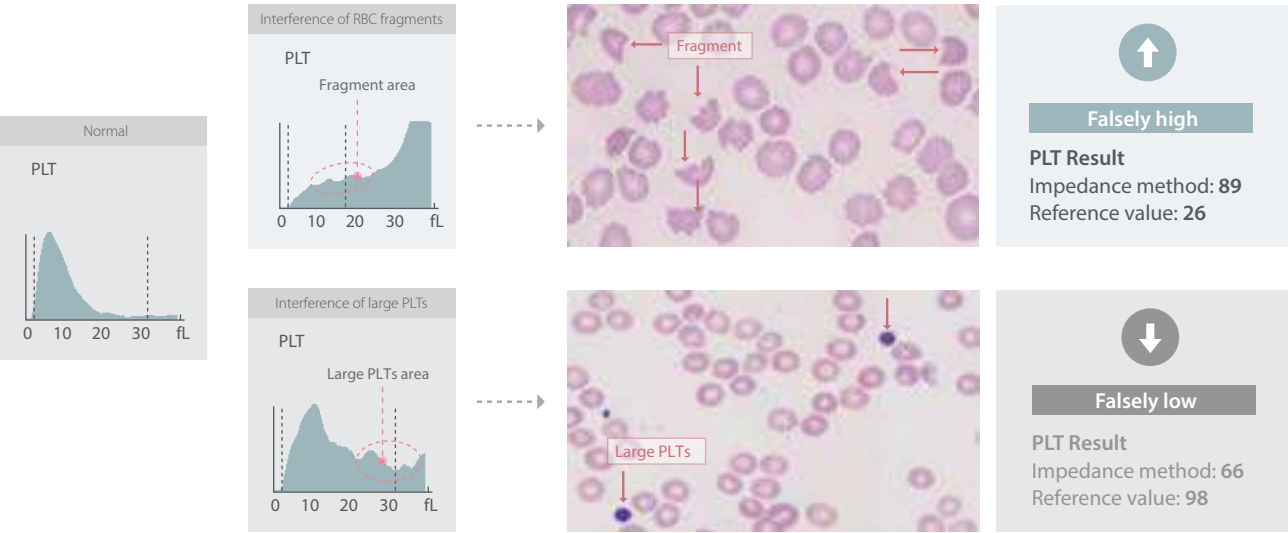
The analyzer provides a detailed list of over 40 prompt messages, including WBC message, RBC message, and PLT message. This allows laboratory technicians to intuitively and quickly identify abnormal samples and proceed further with the samples in a timely manner. This in turn helps to avoid missed diagnosis of blood disease and false reports.



••• Beyond your expectations

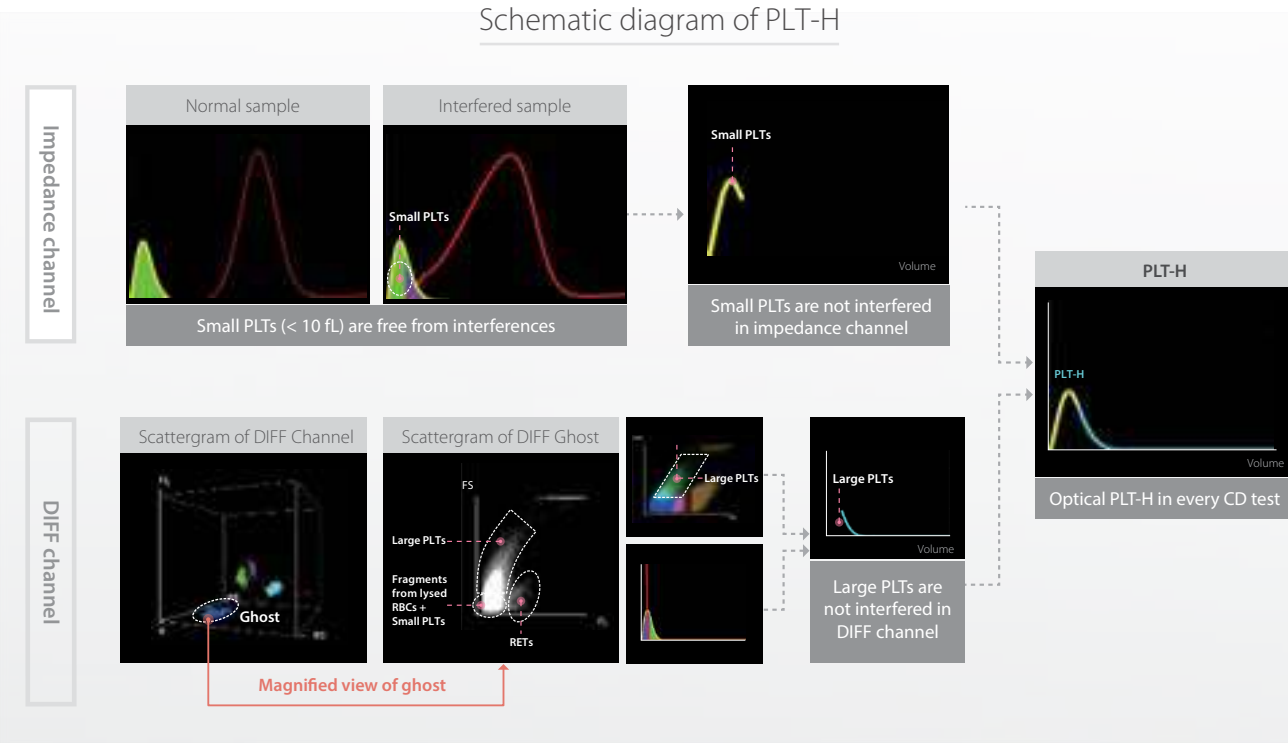
► Limitations of traditional PLT counting

In the traditional impedance method, PLTs are subject to interferences that may lead to falsely high or falsely low results (as shown in the figure). Once an error report is generated, it will directly affect the judgment and decision-making of clinicians. The results reported at the clinical decision level are related to patient safety. Therefore, accurate PLT results are critical in clinical practice.



Optical PLT-H in every CD test

In order to solve the above problem, we have developed a brand new parameter PLT-H. It combines small PLTs from the conventional impedance method and large PLTs from the optical method. The solution can resist the interferences in conventional PLT detection without requiring extra reagents.





CD + ESR in one test provide reliable ESR results with greater ease

The BC-700 series integrates an automatic ESR module in a hematology analyzer. It can also generate both CBC & ESR results in one test within 1.5 min. In addition, it saves the costs that would otherwise be incurred for the purchase, maintenance, consumables, and storage space of a separate ESR analyzer. Compared with the traditional Westergren method, this method performs better in quality traceability, repeatability, speed, safety, and level of automation.

Accurate

- Great correlation with the Westergren method
- Same QC and calibrator as in the BC-6000 series
- Combined examination helps to avoid the interferences of dehydration, polycythemia vera and anemia on ESR results



Cost-effective

- The integrated instrument is capable of both CBC and ESR detection;
- Takes up the space of only one analyzer.



Automatic

- Report CBC + ESR results together within 1.5 min;
- The measurement results are protected against the influence of subjective factors;
- Automation can reduce the biosafety hazards that may otherwise be introduced by a manual method.



RFID

Encryption key management



labXpert

Coming as standard configuration
Same software as BC-6 series



Floating screen

Switching between different analysis modes with a single touch

► Excellent performance, high reliability, and ease of use



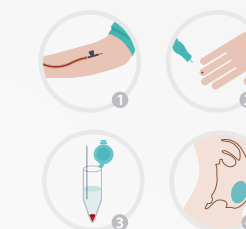
Continuous autoloading

5 positions x 6 racks



Cap piercing STAT

Supports STAT samples and capillary blood samples;
minimizes bio-safety hazards



Applicable to different sample types

Peripheral blood/Capillary blood
Pre-diluted blood/Body fluid

► An all-in-one solution that goes above and beyond your expectations

Excellent performance

Reliable results for abnormal and interfered samples

Superior functionality

Integrated CBC + ESR detection provides a comprehensive tool for inflammation detection
Optical PLT-H ensures reliable PLT results even with interference

SF Cube

- SF Cube 3D fluorescent platform
- IMG/NRBC reportable parameters
- Accurate measurement of low WBC/PLT count
- Anti-aging capability:
24h (room temperature)
48h (refrigerated transportation)



Interactive excellence

Refined details for the optimal user experience



- iHelp videos
- Floating screen
- Ease of maintenance

BC-30s

Automate d'hématologie

Spécifications techniques

Principe : Méthode d'impédance pour WBC, RBC et Comptage PLT Réactif sans Cyanure pour le dosage d'hémoglobine				Capacité de stockage: Jusqu'à 500 000 résultats incluant graphes et informations numériques			
Performance:				Communication: Port LAN compatible HL7 Protocol Lis Bidirectionnel compatible			
Paramètres	Domaine de linéarité	Précision	Carryover	Interface: 4 ports USB (Pour imprimante externe, Sauvegarde logiciel, lecteur code à barre, Adaptateur WIFI, clavier et souris, Port LAN			
WBC(10 ⁹ /L)	0-200	≤ 3.5% (4.0-6.9) ≤2.0% (7.0-15.0)	≤ 0.5%	Impression: Imprimante thermique, 50 mm papier large, plusieurs formats d'impression, imprimante externe en option			
RBC(10 ¹² /L)	0-8.00	≤1.5% (3.5-6.5)	≤0.5%	Conditions opératoires:			
HGB(g/L)	0-280	≤1.5% (100-180)	≤0.5%	Température: 10°C~40°C			
MCV(fL)		≤1.0% (70-110)		Humidité: 10%~90%			
PLT(10 ⁹ /L)	0-4000	≤5.0% (100-149) ≤4.0% (150-500)	≤1.0%	Pression de l'air: 70kPa 106kPa			
Paramètres: 21 Paramètres WBC, Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCR,P-LCC 3 Histogrammes pour WBC, RCB et PLT				Alimentation: 100V-240V ≤300VA 50Hz/60Hz			
Réactifs: M-30D diluent M-30 CFL Lyse PROBE CLEANSER				Dimension et poids:			
Volume d'échantillon: Sang Pré-dilué 20 µL Sang Total 9 µL				Dimension: Hauteur (410 mm) x Largeur (300 mm) x longueur(400 mm)			
Cadence: 70 échantillons par heure				Poids : ≤20Kg			
Écran: Écran TFT 10,4 Pouces							



BC-30s

Automate d'hématologie

Une Taille Minimum
Un maximum de capacité,



Mindray Building, Keji 12th Road South, High-tech Industrial Park, Nanshan, Shenzhen 518057, P.R. China Tel: +86 755 8188 8998 Fax: +86 755 26582680 E-mail: intl-market@mindray.com www.mindray.com Mindray is listed on the NYSE under the symbol "MR"	mindray are registered trademarks or trademarks owned by Shenzhen Mindray Bio-medical Electronics Co., LTD. © 2015 Shenzhen Mindray Bio-Medical Electronics Co., Ltd. All rights reserved. Specifications subject to changes without prior notice. P/N: ENG-BC-30s-210285x6-20150331
	mindray

mindray
healthcare within reach

Technical Specifications	
Methodology	High Performance Liquid Chromatography (HPLC)
Test Modes	Variant Mode, β - thalassemia Mode
Test Range	3% ~ 20%
Precision	CV<1.5%
Test Speed	Variant Mode: 96 Sec/T
	β -Thalassaemia mode: 350 sec/T
Reagent Kit	Eluent A: 800mL, 1600mL
	Eluent B: 800mL
	Eluent C: 800mL
	Eluent D: 800mL
	Hemoglystic L: 2500mL, 5000mL
Sample Volume	5 μ L
Hemoglobin Interferences	No interference from variants E,D,S,C,J
	No interference from HbF up to 15%
Sample Rack	Normal Sample Rack, Anemia Sample Rack, QC Rack, Calibrator Rack
Auto Sample Station	50 Positons +1 STAT Position
Display	10.1" TFT True Color LCD Touch Screen
Storage	20,000 Sample Results
Connection	Rs232, USB, LIS Compatible
Barcode Scanner	Internal Barcode Scanner or Handheld Barcode Scanner
Printer	Internal Thermal Printer and External Laser Printer
Temperature	Storage Temperature 0°C~55°C, Operating temperature: 10°C~30°C
Humidity	<93%
Dimensions	772mm $\times$ 730mm $\times$ 729mm
Weight	62KG

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Lifotronic
— Caring for Better Life —



Hemoglobin Analyzer (HPLC)

The H100 system

A Better Choice for Advanced Laboratories!

01/Accurate

Superior Automatic Sample Mixing

- Advanced up down mixing technology, imitating manual mixing process, eliminate the effects of different RBCs deposition situation, no interference for total area.

Optimized High-pressure Column & Newly Designed Filter

- Improve the efficiency of impurities interception
- Great microspheres generate excellent performance

Identify the variants within 96s

03/Innovative

Automatic record number of tests

- Convenient for customers analyze tests and business situation

02/Efficient

Quick Start

- Warm up within 5 mins

Large capacity reagent kit

- Reduces the frequency of reagent replacement

04/Intelligent

360° Internal Barcode Scanner

- Increase the sensitivity of recognition and reduce the missing scanning rate significantly

Linux system, strong platform

- Linux system is equipped with user-friendly operation interface

Automatic identify sample types

- No extra operation required, save the time and efforts for large sample volume detection



H100 Hemoglobin Analyzer (HPLC)



MAGLUMI® 800

Fully-auto Chemiluminescence Immunoassay (CLIA) System





Outstanding Technologies

CLIA uses two important technologies, one is the labelling technology which determines the reaction mode, and the other is a separation technology which determines the sensitivity, accuracy and precision of the reagents.

■ Labelling Technology

The **MAGLUMI®** system applies ABEI labels. ABEI is a non-enzyme small molecule with special molecular formula to enhance stability in acid and alkaline buffer. Using fast Chemiluminescence, ABEI's chemical reaction with sodium hydroxide (NaOH) and Hyperoxide (H_2O_2) finishes the process in 3 seconds.

■ Separation Technology

MAGLUMI® uses Magnetic Microbeads. As separation technology, it has been widely used in the field of CLIA. Compared with traditional separation technology, it has the following advantages:

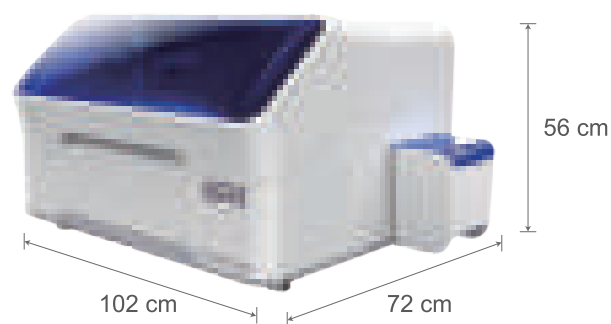
- Shortening the reaction time by enlarging the reaction area of antigens and antibodies.
- Enhancing the sensitivity by better and faster capture of antigens and antibodies.
- Reducing inter or intra-assay discrepancies significantly by mixing the reagents thoroughly in a liquid separation platform.
- Enhancing the accuracy by absorbing antigens and antibodies through chemical reaction.



Advantages of MAGLUMI® 800



- For small and middle size labs or hospitals, simple and smart operation with integrated design and humanized appearance
- Simple, Smart, Humanization designed model
- More than enough test menu to meet the different needs and it will be extended according to your requirement
- Free quality control and calibrator help to reduce the cost of per test
- Quality guarantee by the third party quality control and external quality assessment (EQA)
- Key technologies with ABEI and magnetic microbead enhance stability and sensitivity of MAGLUMI® reagents





Functional Modules

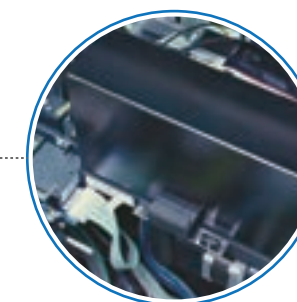


Functional Modules



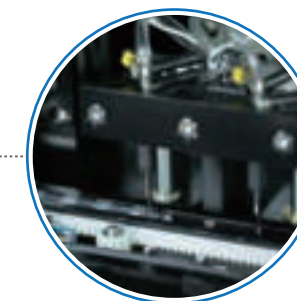
Pipettor

- Aspirate reagent / sample with high speed
- Titanium needle with crush-proof function
- Clot detection & liquid level detection
- Coated with TEFLON to prevent carry-over
- Internal & external washing



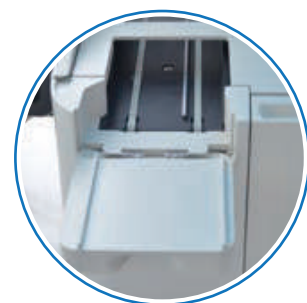
Chamber

- High-sensitivity and low-noise PMT
- Cuvettes detection and anti-overflow



Washer

- Strong magnetic field helps better separation
- Three pairs of washing needles with anti-overflow function



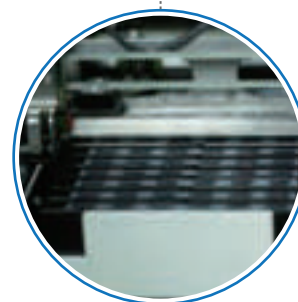
Automated cuvette loader

- Up to 40 modules of 240 tests
- Continuous loading



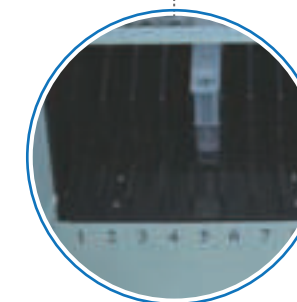
Sample area

- Up to 40 samples on board with barcode
- Continuous loading & cooling function
- Random, batch, and STAT mode



Incubator

- 13 Incubate slots (78 tests at the same time)
- The temperature is $36.8^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$



Reagent area

- Up to 9 reagents on board with RFID
- RFID label storing reagent information
- Easy and fast for adding and updating
- RFID tag, high reliability





Operation Software



Comprehensive Software

- User-friendly interface
- Real-time status monitoring for each test
- Monitoring reagent and consumable status
- Intelligent alarm function
- Multilingual support, 10 languages available by request



Maintenance Guide

- Smart Maintenance with step by step guide, ensure performance reliability and reduce unnecessary service calls
- Daily, weekly and monthly maintenance guide for analyzer



Quality Control

- Westgard rules and Levey-Jennings chart for both internal and external quality control



Test Summary Function

- Test summary including system test, calibration, QC, statistics of samples, valid tests and rerun tests
- Search and review test information conveniently



Pre or Post Defined Dilution Function

- Pre- and post- dilution available for the case of high concentration sample



Bidirectional LIS Connection

- Bidirectional LIS connection by TCP/IP and COM

Broad CLIA Test Menu



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 Estradiol
17 α -OH Progesterone
AMH
SHBG
Androstenedione
PIGF
sFlt-1
*Inhibin A
*Inhibin B

Anemia

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

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

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

Metabolism

GH (hGH) IGFBP-3
IGF-I

Bone Metabolism

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

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

Kidney Function

β 2-Microglobulin
Albumin
*NGAL

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%

Drug Monitoring

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

Hypertension

Direct Renin
Aldosterone
Angiotensin I
Angiotensin II
Cortisol
ACTH

Inflammation Monitoring

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

Prenatal Screening

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

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

Glyco Metabolism

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

Cardiac

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

Coagulation Markers

D-Dimer
TAT
TM
PIC
tPAIC
*FDP

EBV

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

Hepatic Fibrosis

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

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

Reagent Features	● Flash chemiluminescence label-ABEI, with high sensitivity and long stability ● Superpara magnetic microbeads separation technology, fast and efficient
Main Features	● Throughput: up to 180 tests/hour ● 24 hours ready to use ● Time to first result: 17 minutes
Modes of Operation	● Random, Batch and STAT
Sample Loading	● Up to 40 sample tubes ● Continuous loading, STAT available ● Barcode reader recognition or analyzer automatic numbered ● LIS connection, automatic read sample information ● Refrigerated sample area with independent power supply
Reagent Loading	● 9 reagents on board ● Continuous loading ● RFID reading all info of reagent ● Refrigerated reagent area
Reagent Integral	● Ready-to-use, no pretreatment required ● Including calibrators ● RFID tag storing all info of reagent ● RFID tag with built-in master curve ● 2-point calibration to adjust master curve ● Calibration stability: Max 4 weeks
Other Features	● Clot detection ● Liquid level detection ● Automatic and optional ratio for high concentration sample dilution ● Constant $36.8 \pm 0.5^{\circ}\text{C}$ incubation
Operation System	● Windows 7, Windows 10 ● Color screen
Interconnection	● Bidirectional LIS connection by TCP/IP and COM
Dimensions Weight	● Input: AC 110/230 Vac, 50/60 Hz, Max 630 W ● Dimension and Weight: 102*72*56 cm 73 kg

MAGLUMI® is a trademark 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.)**

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DISTRIBUTOR:

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MAGLUMI® X3

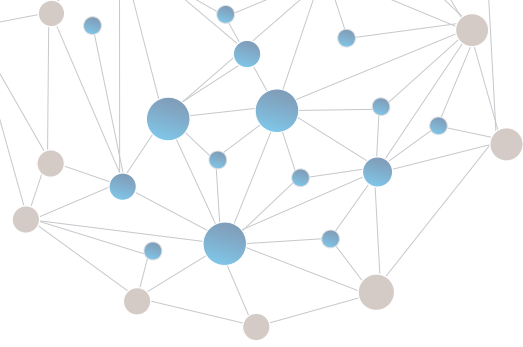
Fully-auto Chemiluminescence Immunoassay (CLIA) System



Save Your Space Without Compromise

Powerful Performance and Compact Design

Compatible with Small and Medium-sized Hospitals and Labs

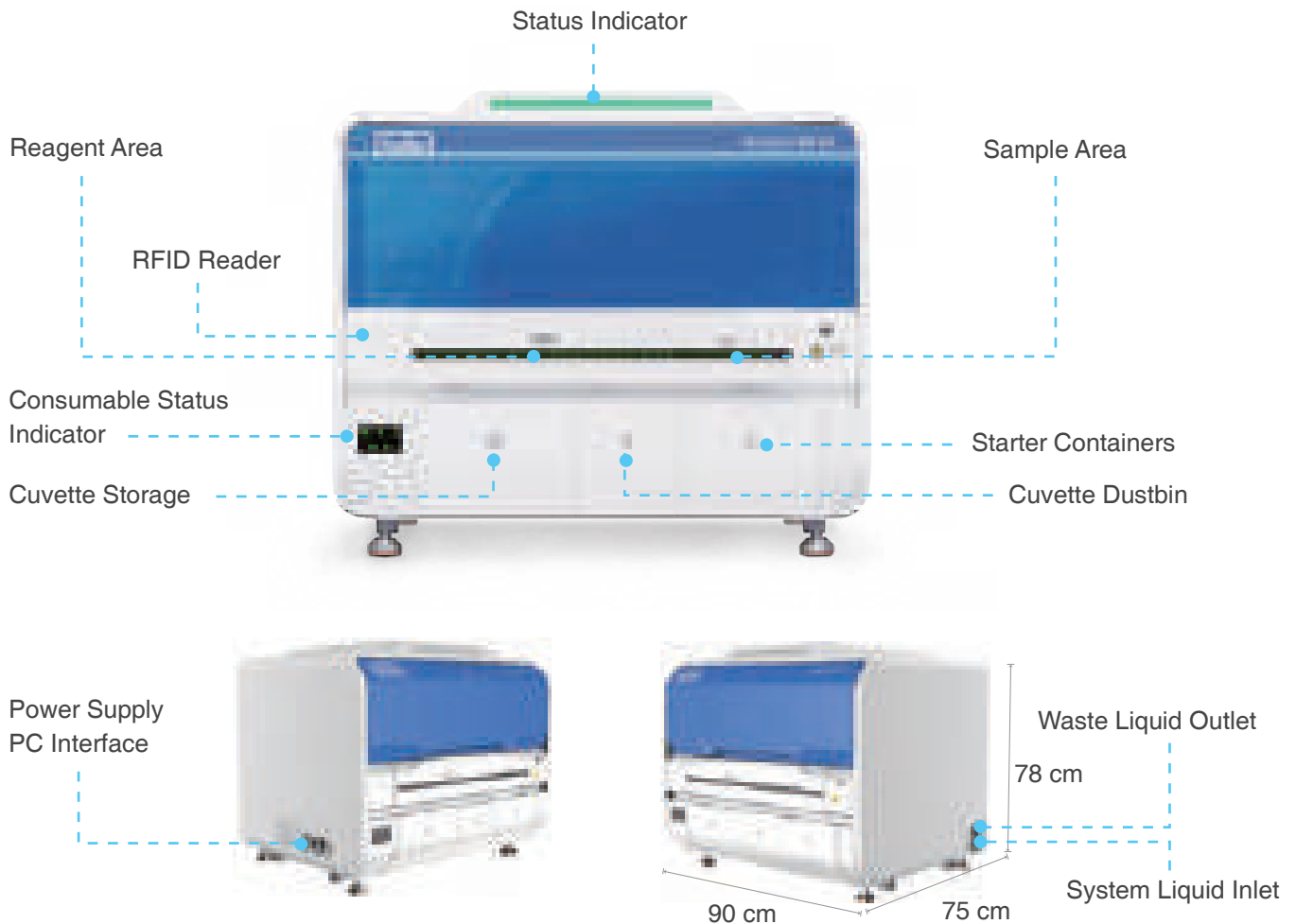


MAGLUMI® X3

Features & Benefits

- Small but powerful, the throughput is up to 200 tests/hour, and throughput per unit area is 296 T/h/m².
- Compatible with all **MAGLUMI®** reagents, one of the broadest automated CLIA test menus in the world (260 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





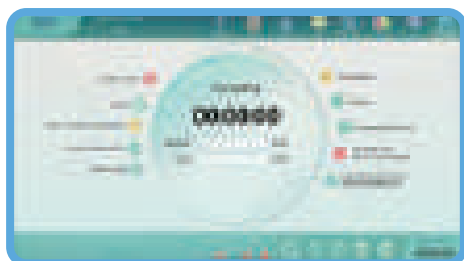
Reagent and Sample Loading

- 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 multiple languages)
- 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

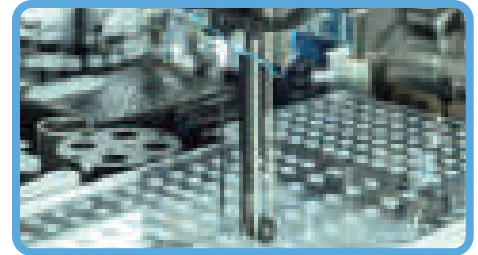
- Intuitive indicator light of reagent, sample, and consumable. No need to focus on the monitor, the status can be known by looking at the analyzer from a distance



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

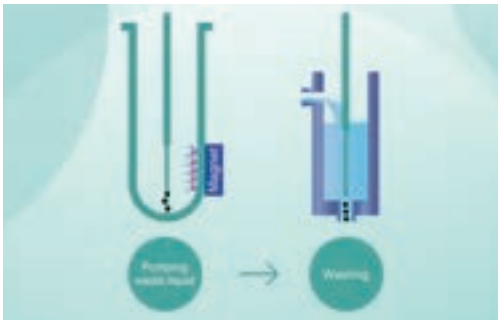
- ABEI-label exclusive proprietary technology
- PMT with heating and cooling function, ensuring the detection precision
- Independent measuring room, avoiding light cross-contamination





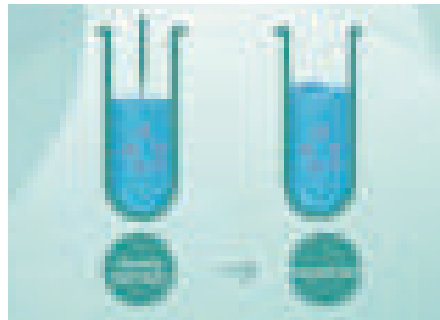
Exclusive Intelligent Washing Technology

Independent washing units for waste liquid needles



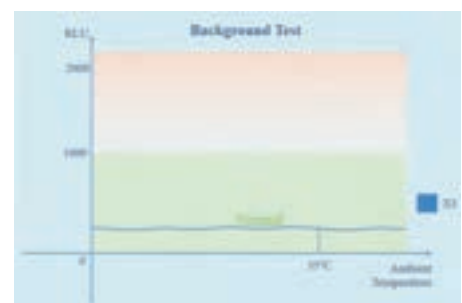
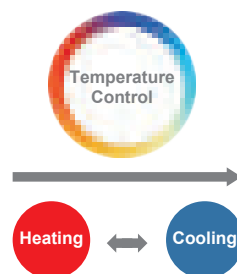
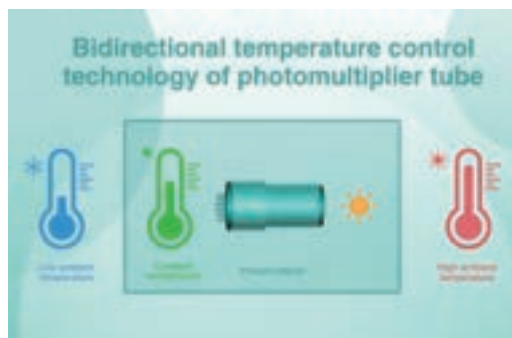
In the wash station, four waste liquid needles are equipped with four independent washing units to avoid the carry-over.

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



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.



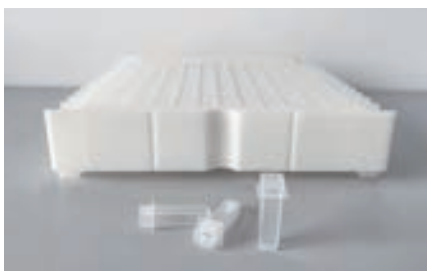
Top 10 Highlights of MAGLUMI® X3

- 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 296 T/h/m²). No worry about the lack of laboratory space.
- ③ **MAGLUMI®** reagent kits (260 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 or 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 to operate.
- ⑩ Intuitive indicator lights reduce the frequency of manual reagent and consumable checks.

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
Total T3
Free T4 FDA
Free T3
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

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	

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ENA Screen
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Anti-Rib-P IgG
Anti-SS-B IgG
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Anti-Scl-70 IgG
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*Anti-Nucleosome IgG

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*RF IgG
*RF IgA
*RF Screen

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TMA
Anti-GAD (GAD65)
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IAA (Anti Insulin)
Anti-ZnT8

Vasculitis

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

Antiphospholipid Syndrome

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

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-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- α
IgE
*VEGF
*PCT STAT-EX™
*CRP STAT-EX™

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

β_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®** reagents

Main Features

- Throughput: up to 200 tests/hour
- Space occupied < 0.68 m², throughput of per unit area > 296 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, 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: 90 (L) × 75 (W) × 78 (H) cm
- Weight: 132 kg

MAGLUMI®, STAT-X™, SnibeLis® and SnibeLinker® are trademarks of Snibe.
All other product names and trademarks are the property of their respective owners.



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Fax: +86 755 26654850

Web: www.snibe.com

Follow us on



MAGLUMI® X6

Fully-auto Chemiluminescence Immunoassay Analyzer

450 T/H



Flexible CLIA Solution
For Medium/High-volume Laboratory



Innovation Brings Revolution

CORE TECHNOLOGY – X-Tech

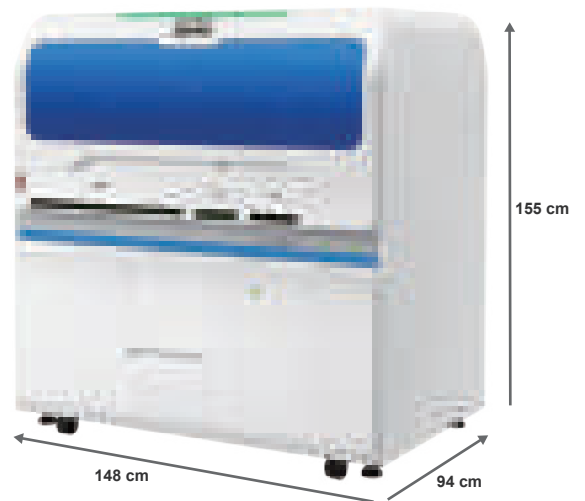




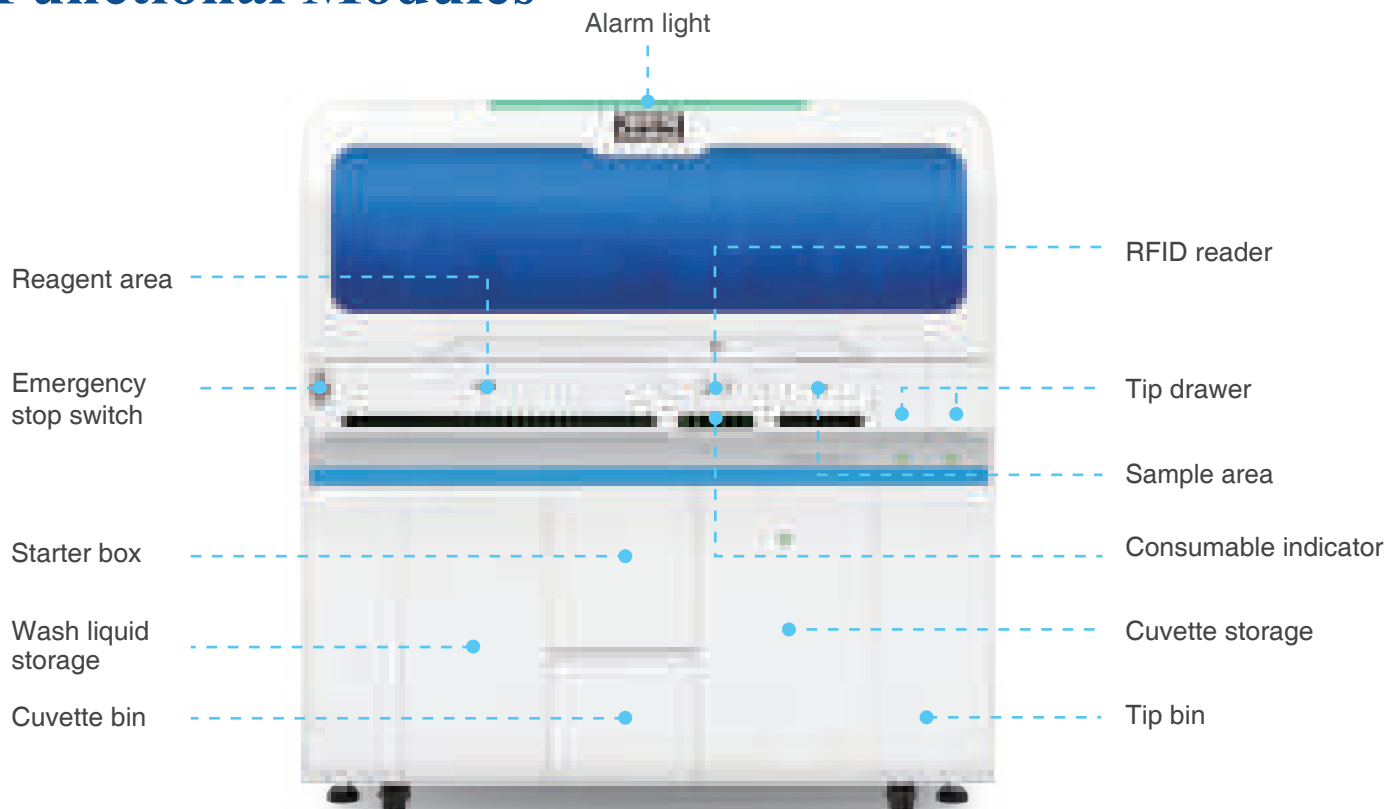
MAGLUMI® X6

Based on X-Tech, gives you more possibility

- Throughput: 450 T/H
- Throughput per unit area: up to 323 T/H/m²
- On board capability: 112 samples
- Reagent position: 30
- Walk-away tests: up to 2000 tests
- Cuvettes loading in one time: up to 2002



Functional Modules



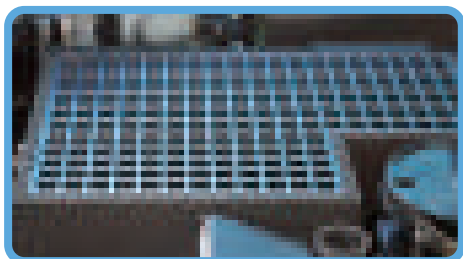


Advanced Technology



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

- Capable to link with laboratory automation system
- Connectable to Biochemistry analyzer



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 tests
- 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

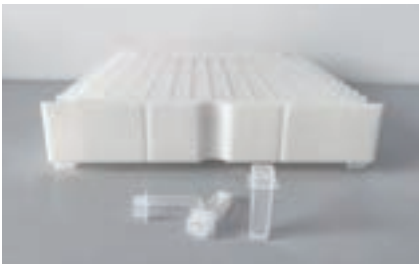




Top 10 Highlights of MAGLUMI® X6

- 1 Throughput up to 450 T/H — One of the highest throughput analyzer with the same size.
- 2 Flexible combination with Biochemistry analyzer and connectable to TLA system.
- 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 Total T3 Free T4 FDA Free T3 Tg (Thyroglobulin) TGA (Anti-Tg) Anti-TPO TRAb TMA Rev T3 T-Uptake	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 <i>Mycoplasma pneumoniae</i> IgG <i>Mycoplasma pneumoniae</i> IgM <i>Chlamydia pneumoniae</i> IgG <i>Chlamydia pneumoniae</i> IgM Respiratory Syncytial Virus IgM Coxsackievirus B IgM Adenovirus IgM Influenza A Virus IgM Influenza B Virus IgM <i>Legionella pneumophila</i> IgM Human Parainfluenza Virus IgM Others HIV Ab/Ag Combi Syphilis Chagas HTLV I+II <i>H. pylori</i> IgG <i>H. pylori</i> IgA <i>H. pylori</i> IgM * <i>H. pylori</i> Ag Dengue Virus IgG Dengue Virus NS1 Dengue Virus IgM Monkeypox Virus Ag *TB-IGRAs *Zika Virus IgG *Zika Virus IgM *Zika Virus NS1 * <i>Chlamydia trachomatis</i> IgA * <i>Chlamydia trachomatis</i> 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-β2-Glycoprotein I IgG Anti-β2-Glycoprotein I IgM Anti-β2-Glycoprotein I IgA Anti-β2-Glycoprotein I Anti-Cardiolipin IgG Anti-Cardiolipin IgM *Anti-Cardiolipin IgA *Anti-Cardiolipin	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-α IgE *VEGF *PCT STAT-EX™ *CRP STAT-EX™ 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 β 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
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				

* 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
- 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 ($\pm 0.3^\circ\text{C}$) 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

MAGLUMI®, STAT-X™, SnibeLis®, and SnibeLinker® are trademarks of Snibe.
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MAGLUMI® X8

Fully-auto Chemiluminescence Immunoassay (CLIA) System



Super-fast CLIA Solution

www.snibe.com
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Outstanding Technologies

CLIA uses two important technologies, one is the labelling technology which determines the reaction mode, and the other is a separation technology which determines the sensitivity, accuracy and precision of the reagents.

Labelling Technology

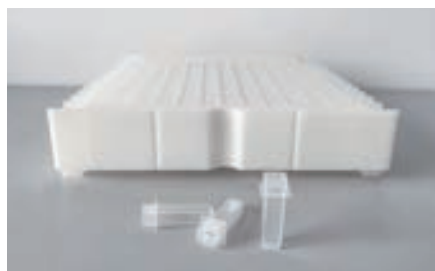
The **MAGLUMI®** system applies ABEI labels. ABEI is a non-enzyme small molecule with special molecular formula to enhance stability in acid and alkaline buffer. Using fast Chemiluminescence, ABEI's chemical reaction with sodium hydroxide (NaOH) and Hydroperoxide (H_2O_2) finishes the process in 3 seconds.



Separation Technology

MAGLUMI® uses Magnetic Microbeads. As separation technology, it has been widely used in the field of CLIA. Compared with traditional separation technology, it has the following advantages:

- Shortening the reaction time by enlarging the reaction area of antigens and antibodies.
- Enhancing the sensitivity by better and faster capture of antigens and antibodies.
- Reducing inter or intra-assay discrepancies significantly by mixing the reagents thoroughly in a liquid separation platform.
- Enhancing the accuracy by absorbing antigens and antibodies through chemical reaction.



Reaction Cup



Disposable Tips



Starter 1+2



Wash Concentrate



Tubing Cleaning Solution



Light Check

Advantages of MAGLUMI® X8



High throughput

- Throughput: up to 600 tests/hour (Single module)
- Up to 2400 tests/hour (Four modules combined)



High capacity

- Sample Position: 300
- Reagent Position: 42
- Up to 2800 walk-away tests



Excellent reliability

- Magnetic microbeads separation, fast and efficient
- Flash chemiluminescence label-ABEI
- Intelligent magnetic field design ensuring excellent separation
- Disposable tips to prevent carry-over



Advanced intelligence

- Capable of integrating several modules including Snibe Immunoassay, Biochemistry and ISE module
- Capable to link with Laboratory Automation System (TLA/LAS)
- User-friendly interface, easy operation
- Intelligent consumable loading technology
- Intelligent information monitoring system





Functional Modules



Sample Loading

- Up to 300 sample positions
- Continuous loading, STAT available
- Auto-remeasuring function, auto dilution function
- Sample editing mode:
 - Lis connection, barcode recognition, auto named, manual editing



Sample Transport System/Sampling System

- 3 channels, high-speed loading
- STAT priority
- Disposable tips
- One pipetting for multiple tests
- Clot detection
- Liquid level detection
- Bubble detection
- Collision detection



Reagent Area

- 42 reagent positions on board
- Continuous loading
- RFID technology
- 24-hour refrigerated
- Working Temp. 8°C-12°C, Storage Temp. 2°C-8°C



Reagent Needle

- Titanium needle for crushproof
- Teflon coated for carry-over prevention
- Dual-arm design to pipette different reagents simultaneously
- Liquid level detection, collision detection



Tip Storage

- Up to 576 TIPS loaded in one time (6 boxes)
- Intelligent loading technology, continuous loading, real-time reserve monitoring



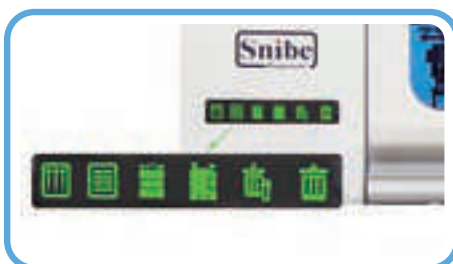
Cuvette Storage

- Single cuvette design
- Up to 2912 cuvettes loaded in one time (16 boxes)
- Intelligent loading technology, continuous loading, real-time reserve monitoring



Consumable Management

- Intuitive and concise design
- Real-time monitoring of consumables



Software System

- Brand new user-friendly UI
- Supporting SnibeLinker® remote diagnosis system
- Multilingual support
- Touch screen, easy operation
- Report system including editing, storage, query and printing





Operation Software



Comprehensive software

- User-friendly interface
- Real-time status monitoring for each test
- Monitoring reagent and consumable status
- Intelligent alarm function
- Multilingual support, more languages available by request



Maintenance guide

- Maintenance with step by step guide to ensure performance reliability and reduce unnecessary service calls
- Daily, weekly and monthly maintenance guide for analyzer



Quality control

- Westgard rules and Levey-Jennings chart for both internal and external quality control



Test summary function

- Test summary, including system test, calibration, QC, statistics of samples, valid tests and rerun tests
- Search and review test information conveniently



Pre- or post- defined dilution function

- Pre- and post- dilution available for the case of high concentration sample



Bidirectional LIS connection

- Bidirectional LIS connection by TCP/IP and ASTM

Broad CLIA Test Menu with 260 Assays



Thyroid

TSH (3rd Generation) FDA
Total T4
Total T3
Free T4 FDA
Free T3
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

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

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-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- α
IgE
*VEGF
*PCT STAT-EX™
*CRP STAT-EX™

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

β_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

Reagent Features

- Flash chemiluminescence label-ABEI, with high sensitivity and long stability
- Superparamagnetic microbeads separation technology for fast and efficient separation

Main Features

- Throughput: up to 600 tests/hour (Single module)
- Time to first result: 15 minutes
- 24 hours ready to use
- Up to 2800 walk-away tests
- Modular Expanding Flexibility:
 - *Capable to integrate several modules including Snibe Immunoassay, Biochemistry and ISE module
 - *Capable to link with Laboratory Automation System (TLA/LAS)

Sample Loading

- Up to 300 sample positions
- Continuous loading, STAT available
- Auto remeasuring function
- Sample editing mode:
 - Lis connection, Barcode recognition, Auto named, Manual editing

Reagent Loading

- 42 reagent positions on board
- Continuous loading
- RFID technology
- 24-hour refrigerated
- Working Temp. 8°C-12°C, Storage Temp. 2°C-8°C

Reagent Needle

- Titanium needle for crushproof
- Teflon coated for carry-over prevention
- Dual-arm design to pipette different reagents simultaneously
- Liquid level detection, collision detection
- Probe depth adjustment automatically

Reagent Integral

- Ready to use, no pretreatment required
- Calibrators and internal controls included
- RFID tag storing all info of reagent
- 2-point re-calibration
- Calibration stability: up to 4 weeks
- Storage temperature: 2°C-8°C

Sampling System

- Using disposable Tips
- One pipetting for multiple tests
- Clot detection
- Liquid level detection
- Bubble detection
- Collision detection

Reaction Disk

- Incubating 252 cuvettes simultaneously
- Stable $37.0 \pm 0.3^{\circ}\text{C}$ incubation
- Non-contact mix technology

Tip Storage

- Up to 576 Tips loaded in one time (6 boxes)
- Intelligent loading technology, continuous loading, real-time reserve monitoring

Cuvette Storage

- Single cup design
- Up to 2912 cuvettes loaded in one time (16 boxes)
- Intelligent loading technology, continuous loading, real-time reserve monitoring

Washer

- 4-step washing technology, high speed single channel design
- Intelligent magnetic field design ensuring excellent separation
- Non-contact magnetic microbeads suspension technology

Software System

- Bidirectional LIS connection by TCP/IP and COM Port
- Supporting SnibeLinker® remote diagnosis system

Dimensions Weight

- Input: AC 100-240 V, 50/60 Hz
- Dimensions and Weight: 192*118*150 (cm), 670 Kg

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