

LABORATORY AUTOMATION AND SMART TECHNOLOGY

Maglumi CLIA series

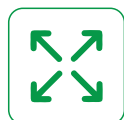
Chemiluminescence Immunoassay analyzer



ABEI Label



Magnetic Microbead



Wide Test Menu

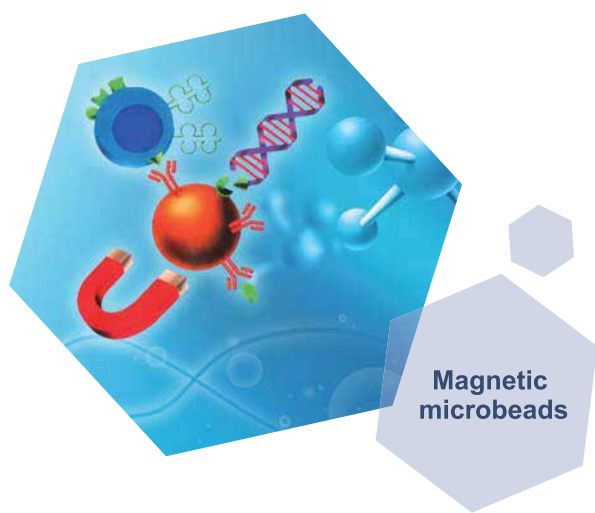


Single reagent integral with calibrator and control



Maglumi CLIA series

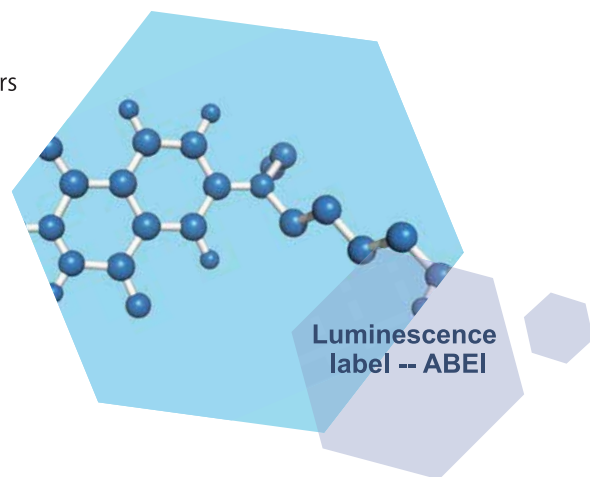
- Reagents available in convenient pack size of 50 tests and 100 tests
- Free quality control and calibrators help to reduce the cost per test
- (2 level Calibrator and control part of kit and need not to be purchased extra)
- Quality guaranteed by the third-party quality control and external quality Assessment(EQA)
- High reliability RFID label storing reagent information
- RFID tag with built label in 10 point master curve
- 2-point calibration to adjust master curve
- Calibration Stability: Max 4 weeks
- Easy and fast for adding and updating
- Autodilution feature available-Pre-and post-dilution available for the case of high concentration sample
- Sample recognized by barcode reader or automatically numbered by the Analyzer
- Random access ,Batch mode and STAT mode instrument



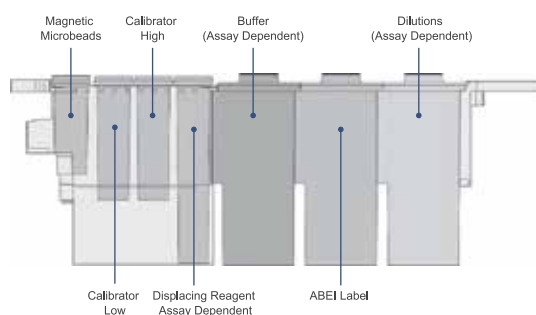
Magnetic microbeads

Hardware features:

- Titanium needle with crush-proof function Clot detection & liquid level detection
- Teflon coated needle for carry-over prevention Inner & external washing of pipettors
- Continuous loading of reagents and samples possible
- Cooling of sample and reagents and areas for stability and to avoid Deterioration
- Powerful washer with anti-overflow function
- Intelligent magnetic field design ensure good Separation
- High-sensitivity and low-noise photo multiplier tube (PMT)
- Cuvette detection and anti-overflow
- Bidirectional LIS connection by TCP/IP and COM



Luminescence label -- ABEI



Reagent (S07/1007)

Software features:

- User-friendly interface
- Real-time status monitoring for each test
- Monitoring reagent and consumable status
- Intelligent alarm function
- Smart Maintenance with step by step guide, ensure performance
- Reliability and reduce unnecessary service calls
- Daily ,weekly and monthly maintenance guide for analyzer
- Westgard rules and Levey – Jennings chart for both internal and external
- Quality control QC



Parameter	Maglumi 600	Maglumi 800	Maglumi X3	Maglumi 2000	Maglumi 2000 plus	Maglumi 4000 Plus
Throughput	180 tests/hr	180 tests/hr	200 tests/hr	180 tests/hr	180 tests/hr	280 tests/hr
Model type	Benchtop	Benchtop	Benchtop	Benchtop	Floor	Floor
Cuvette input	Manual	Automated	Automated	Automated	Automated	Automated
Cuvette loading capacity	10 reaction modules, upto 60 tests	40 reaction modules, upto 240 tests	364 single cuvettes	120 reaction modules, upto 720 tests cuvettes	120 reaction modules, 720 tests	160 reaction modules, upto 960 tests
Reagent positions	4	9	20	15	25	25
Sample positions	16	40	72	144	144	144, can be extended to 280
Single cuvette facility	No	No	Yes	No	No	No
Test volume per day	10-35	40-80	40-80	100-300	100-300	>300
Dimensions	90x56x50 cm 56 Kg	102x72x56 cm 73 Kg	78x90x75cm 127 Kg	135x64x87cm 158 Kg	144x76x152cm 228 Kg	144x83x154cm 270 Kg



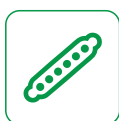
MAGLUMI[®]-800

Chemiluminescence Immunoassay (CLIA) System

Fully Automatic Immunoassay Analyzer



Throughput of 180 tests/hour



Loads 40 cuvettes



40 sample positions



9 reagent positions



Chamber

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



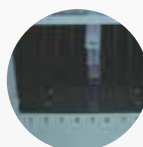
Washer

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



Sample Area

- Upto 40 sample on board with barcode
- Continuous loading & cooling function
- Random, batch and STAT functions
- Auto dilution feature



Reagent area

- Upto 9 reagents on board with RFID
- RFID label storing reagent information
- Easy and fast for adding and updating
- RFID tag, high reliability
- Continuous loading
- Onboard cooling



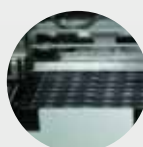
Automated cuvette loader

- Upto 40 modules of 240 tests
- Continuous loading



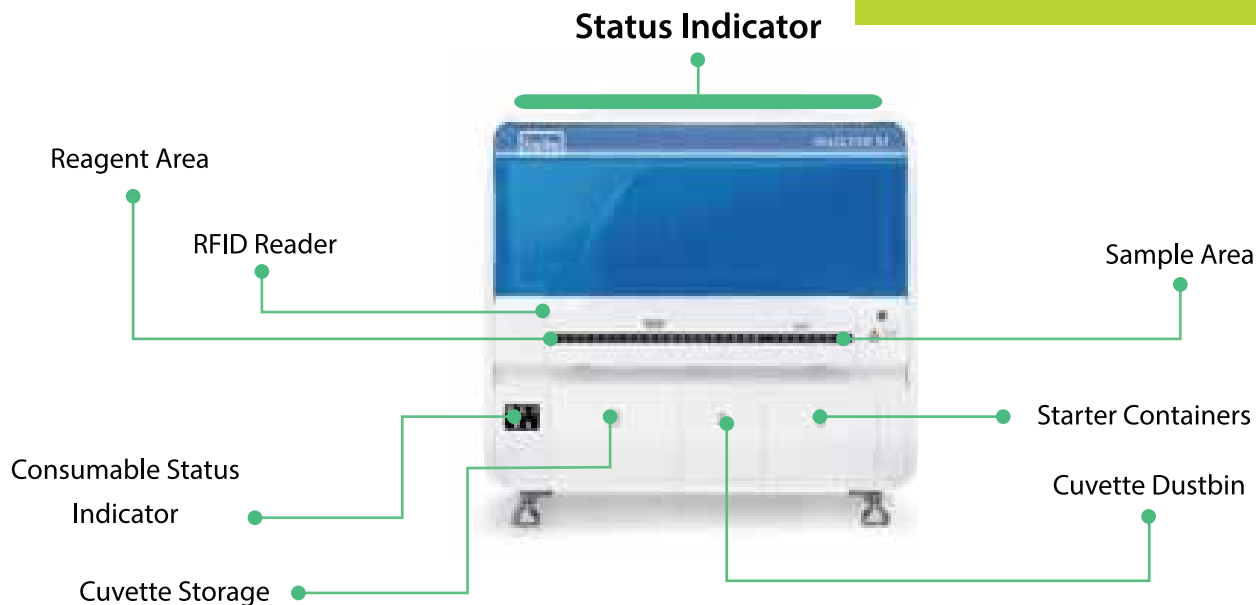
Pipettor

- Aspirate reagent/sample with high speed
- Titanium needle for crushproof
- Clot detection & liquid level detection
- Coated with TEFLON to prevent carry-over
- Inner & external washing



Incubator

- 13 Incubate slots(78 tests at the same time)
- The temperature is 36.8 C ± 0.5 C
- Dimension & weight 102cm x72cm x 56cm 73 kg.



MAGLUMI[®]-X3

Chemiluminescence Immunoassay (CLIA) System

Powerful Performance and Compact Design

Compatible with Small and Medium-sized Hospitals and Labs



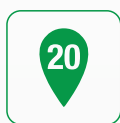
Throughput of 200 tests/hour



Loads 364 cuvettes (single cuvette load)



72 sample positions



20 reagent positions

- The comprehensive advanced design of MAGLUMI
- Single reaction cup can avoid light pollution and increase cuvette utilization, integrated packaging can avoid the struck of the cuvette and destroying the cuvette wall
- No-pause loading/unloading of reagent/sample/reaction cups waiting or interrupting tests
- Intuitive indicator light of reagent, sample, and consumables, no need to focus on the monitor, the status can be known by looking at the analyzer from a distance
- Single reaction cup with five-sided heating at 37 deg C. ensures accurate, quick and uniform incubation
- Sample in each position can be defined as STAT.

Exclusive Intelligent Washing Technology

Independent Washing units for waste liquid needles

Magnetic separation washing and non-contact vortex mixing



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 units, with different mixing modes depending on different assays, ensuring 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

TEST MENU

Thyroid

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

Fertility

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

Cardiac

CK-MB
Troponin I
Myoglobin
hs-cTnI
H-FABP
NT-proBNP
BNP
D-Dimer
Lp-PLA2
*MPO

Hepatic Fibrosis

HA
PIIIP N-P
C IV
Laminin
Cholyglycine

EBV

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

Metabolism

Pepsinogen I
Pepsinogen II
Gastrin-17
GH (hGH)
IGF-I
(Serum/Urine)
IGFBP-3
(Serum/Urine)

TORCH

Toxo IgG
Toxo IgM
Rubella IgG
Rubella IgM
CMV IgG
CMV IgM
HSV-1/2 IgG
HSV-1/2 IgM
HSV-2 IgG
*HSV-2 IgM
*HSV-1 IgG
*HSV-1 IgM

Hypertension

Direct Renin
Aldosterone
Angiotensin I
Angiotensin II
Cortisol
ACTH

Immunoglobulin

IgM
IgA
IgE
IgG

Inflammation Monitoring

CRP (High Sensitive)
PCT (Procalcitonin)
IL-6 (Interleukin 6)
SAA (Serum Amyloid A)

Drug Monitoring

Digoxin
CSA (Cyclosporine A)
FK 506 (Tacrolimus)

Kidney Function

β_2 -MG
Albumin
*NGAL

Infectious Disease

HBsAg
Anti-HBs
HBeAg
Anti-HBe
Anti-HBc
Anti-HCV
Syphilis
Anti-HAV
HAV IgM
HIV Ab/Ag Combi
Chagas
HTLV I+II
H.pylori IgG
H.pylori IgA
H.pylori IgM
2019-nCoV IgG
2019-nCoV IgM
SARS-CoV-2 S-RBD IgG
SARS-CoV-2 Neutralizing Antibody
SARS-CoV-2 Ag
*Anti-HBc IgM

Prenatal Screening

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

Anemia

Vitamin B12
Ferritin
Folate (FA)
*RBC Folate
*EPO

Bone Metabolism

Calcitonin
Osteocalcin
25-OH Vitamin D
Intact PTH
* β -CrossLaps (β -CTx)
*total P1NP

Tumor Markers

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

Autoimmune

Anti-CCP
Anti-dsDNA IgG
ANA Screen
ENA Screen
Anti-Sm IgG
Anti-Rib-P IgG
Anti-Scl-70 IgG
Anti-Centromeres IgG
Anti-Jo-1 IgG
Anti-M2-3E IgG
Anti-Histones IgG
Anti-nRNP/Sm IgG
Anti-SS-B IgG
Anti-SS-A IgG
TGA(Anti-Tg)
Anti-TPO
TRAb
TMA
ICA
IAA(Anti Insulin)
GAD 65
Anti-IA2
*Anti-Cardiolipin IgG
*Anti-Cardiolipin IgM
*Anti-MPO

Glyco Metabolism

C-Peptide
Insulin
GAD 65
Anti-IA2
ICA
IAA (Anti Insulin)
Proinsulin

* Available soon



DIESE Diagnostica Senese SpA (ITALY)

Chorus TRIO

Taking Autoimmune and Infectious Testing to Next Level



Large Menu

Wide Menu of autoimmune and infectious diseases



Same Day Results

Same day reporting for rare parameters too with small TAT



Small Pack

Small test packaging



Easy Perform

Easy to perform

Wide Menu: Up to 100 comprehensive range of autoimmune & infectious parameters onboard that includes both routine as well as rare parameters, like ANA, dsDNA, Anti Cardiolipin, Beta 2 Glycoprotein, CCP entire ToRCH panel including HSV.

Same day reporting: Rare tests reporting on same day resulting in better patient care. On an average 30 results in 1 hr 20 minutes.

Small test pack: Small pack size 36 or 12 devices according to the type of test.

Easy to perform: Create different test combinations in batch mode with an instrument that adjusts to the lab's routine. Combine any variety of test in the same run for different parameters and different samples.

HARDWARE AND SOFTWARE

- Touch-Screen LCD panel
- Internal barcode reader and Built in thermal printer
- Laboratory information system for host co-operation also available
- Internal modem for tele-assistance
- Multi-wavelength photometer 610, 650 nm
- Storage of all data of the last 20 session
- Identi-system bar-code concept
- Bidirectional connection to Host Computer (RS-232 serial port)

SINGLE TEST DEVICE

- No waste of reagents
- Each single device contains all the reagents to carry out the test
- Memorized master curve
- Calibrators and controls included in 36 tests kit
- Convenient packaging 12 & 36 devices per kit

EASY TO USE

- Multiparametric testing ie. can perform different tests at the same time
- Has both manual entry and barcode reader facilities
- Maintenance and calibration is minimal requiring only daily priming cleaning and sanitation weekly
- LCD colour touch screen for better and easy working
- The results are printed by the internal thermal printer or sent to the host computer through the Laboratory Information System
- Different test based on different methodologies can be run at the same time

THREE SIMPLE STEPS TO GET ACCURATE RESULTS

1 Dispense the serum into the device



2 Place the Device in the instrument



3 Press RUN: Instrument is pre-programmed by device bar code label



Some benefits of Chorus trio in your lab

- Automation of your autoimmunity and infectious menu in one system
- No more worries for long TAT for specialized tests
- Low volume tests can be performed in automation broadening the list of service directly offered to the patients.
- Rare tests reporting on same day resulting in better patient care. On an average 30 results in 1 hr 20 mins.
- Helps minimize the operational errors.
- Calibration and stability of 28 days, saves your time and cost
- Master curve procedure with one point calibration
- 30 devices per run upto 30 different assays per run
- Per test cost are not much dependant on your workloads so can plan your business model with clarity.
- Can get the report in your own format (Data can also be directly transferred to laboratory information system)
- Specialized software which assures appropriate pipetting of samples and reagents.
- Complementary menu to most of automated immunoassays processors widening the level of automation in the lab.
- Safe for the person performing the assay



Chorus Menu

A wide menu of
autoimmune and infectious parameters

Rheumatology

ANA Screen
dsDNA IgG
dsDNA IgM
anti CCP
SM
SS-A
SS-B
Scl 70
Cenp B
Jo-1
U1- 70
RF –IgG
RF-IgM
U1-70 RNP

ToRCH

Toxoplasma IgG
Toxoplasma IgM
Toxoplasma IgA
Toxoplasma Avidity
Rubella IgG
Rubella IgM
Rubella Avidity
CMV IgG
CMV IgM
CMV Avidity
HSV 1+2 IgG
HSV 1+2 IgM
HSV 1 IgG
HSV 2 IgG

Infectious Mononucleosis

EBV VCA IgG
EBV VCA IgM
EBV EBNA IgG
EBV EA IgG
EBV EA IgM

Bone Metabolism

25 OH Vitamin D

Infectious Diseases

Echinococcus
Q-Fever Phase II
Toscana Virus
Toxocara
Borrelia burgdorferi IgG
Borrelia burgdorferi IgM
TBE IgG
TBE IgM

Thyroid

a- Tg
a-TPO
TG

Thrombosis

Anti cardiolipin IgG
Anti cardiolipin IgM
 β 2 Glycoprotein IgG
 β 2 Glycoprotein IgM

Gastropanel

Helicobacter Pylori Ag
Helicobacter Pylori IgG
Helicobacter Pylori IgA
Calprotectin
Clostridium difficile A/B Toxins
Clostridium difficile GDH Ag

Pneumopanel

Mycoplasma pneumonia IgG
Mycoplasma pneumonia IgM
Mycoplasma pneumonia IgA
RSV IgG
RSV IgA
Legionella IgG 1-6
Legionella IgG 1
Legionella IgM
Influenza A IgG
Influenza A IgA
Influenza B IgG
Influenza B IgA
Adenovirus IgG
Adenovirus IgA
Chlamydomphila pneumonia IgG
Chlamydomphila pneumonia IgA
Chlamydomphila pneumonia IgM
Bordetella Pertussis

Vasculitis

MPO
PR3
GBM

Gastroenterology

tTg IgA
tTg IgG
Gliadin IgA
Gliadin IgG
ASCA- A
ASCA- G
Intrinsic factor
DGP IgG
DGP IgA

Urinary Antigens

Legionella

Pediatric Panel

Measles IgG
Measles IgM
Mumps IgG
Mumps IgM
Varicella IgG
Varicella IgM
Parvovirus B19

Hepatology

AMA-M2
LKM-1
LC-1

Sexually Transmitted Diseases

Chlamydia Trachomatis
IgG/IgA

mindray® BC-5140



Fully Automated 5-Part Hematology Analyzer

25

Extensive Parameters

3

3 reagents only



Improved technology



Large storage

Extensive Parameters : WBC 5-part Differentiation, 25 reportable parameters and 24 research parameters, 3 histograms and 4 scattergrams. Whole blood mode, Capillary whole blood mode and Prediluted mode

Improved technology : Laser scatter + Chemical dye + Flow cytometry technology Dedicated optical counting channel for Basophil measurement. Powerful capability of flagging abnormal cells. Improved DC impedance technology is used to count and size the RBC and PLT. The smaller counting aperture (50 μ m in diameter) provides better performance on samples with low PLT.

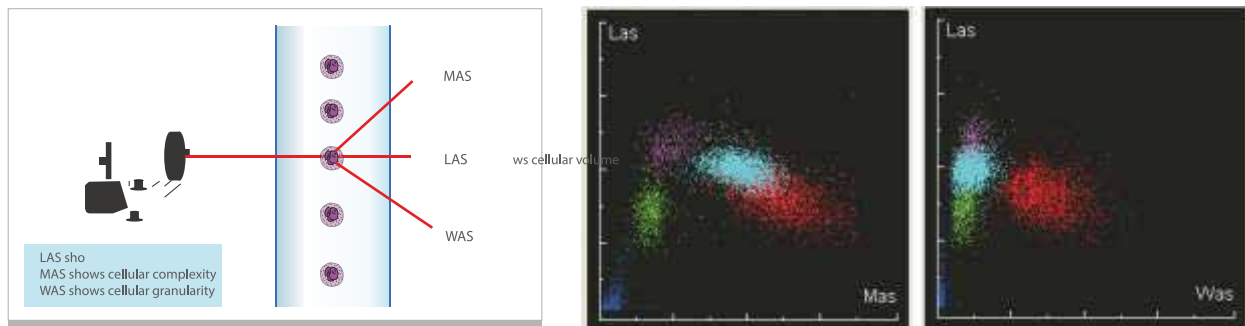
Works with 3 reagents only : Only three routine reagents are required. These have 2 years shelf life and also less consumed by BC-5140.

Large storage capacity : up to 200,000 samples

Outstanding Technology

As the lightest and most compact 5-part hematology analyzer so far from Mindray, BC-5140 is a highly user-friendly and innovative analyzer that offers cost **effective** CBC and 5 part white cell **differential** results. Its provides more accurate, more **efficient** and more innovative solutions for labs.

Tri-angle laser scatter + focused **Flow** + chemical dye, creating the possibility for a better 5 part WBC **differential** even. on samples with high Eosinophil.



BC-5140, the 5-part hematology analyzer a great solution for clinical labs, especially for those who have limited space. Its compact foot-print is a result of innovative technology improvements, including miniaturized semi-conductor laser source, highly integrated electronic boards and optimized liquid handling system.



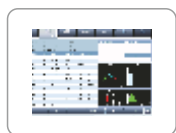
Compact

Two kinds of lyse reagents are located inside of BC-5140, which helps the small labs to save space.



Utility

The 10.4 inch TFT touch screen with a wide viewing angle, brings convenience to clinicians. Users can complete all instrument operations on the screen, practically eliminating the need for an external PC.



BC-5140 inherits its convenient and proven powerful software design from BC-6800 and BC-3600 platforms, the friendly interface is ideal for small sized labs.

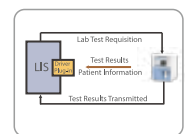


Running capillary blood through the sample probe directly is more convenient for the users in children's hospitals, etc. For Prediluted mode, BC-5140 has higher dilution ratio than other 5-part hematology analyzers, thus it brings a better mixing effect.

4 USB ports are located on the instrument's left side. They permit BC-5140 users to transmit data conveniently and connect with printers, keyboard, mouse, barcode scanner, etc.



BC-5140 supports bi-directional LIS with test results and patient information. HL7 protocol is supported as well.



Technology

Compared with traditional helium neon laser or argon laser, semi-conductor laser has smaller size, lower cost and longer life cycle.



Improved DC impedance technology is used to count and size the RBC and PLT. The smaller counting aperture (50m in diameter) provides better performance on samples with low PLT.



Technical Specifications:

Principles

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

Parameters:

- 25 reportable parameters: WBC, Lym%, Mon%, Neu%, Bas%, Eos%, Lym#, Mon#, Neu#, Eos#, Bas#, RBC, HGB, HCT, MCV, MCH, MCHC,DW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCR, P-LCC.
- 24 Research parameters include LIC%, LIC#, ALY%, ALY#, PLT Clump#, PLT Clump%, Lip#, Lip%, NRBC#, NRBC%, Blast#, Blast%, PDW-SD,NLR,PLR,Neu-X,Neu-Y,Neu-Z,Lym-X,Lym-Y,Lym-Z,Mon-X, Mon-Y,Mon-Z
- 3 histograms for RBC, WBC and PLT
- 4 Scattergrams for WBC differential

Reagent

- M-52D Diluent, M-52DIFF lyse, M-52LH lyse, probe cleanser

Performance

Parameter	Linearity Range	Precision	Carryover
WBC	$0-500 \times 10^9/L$	$\leq 2\%$ ($4-15 \times 10^9/L$)	$< 0.5\%$
RBC	$0-8 \times 10^{12}/L$	$\leq 1.5\%$ ($3.5-6.0 \times 10^{12}/L$)	$\leq 0.5\%$
HGB	$0-250g/L$	$\leq 1.5\%$ ($110-180g/L$)	$\leq 0.6\%$
PLT	$0-5000 \times 10^9/L$	$\leq 6.0\%$ ($100-149 \times 10^9/L$) $\leq 4.0\%$ ($150-500 \times 10^9/L$)	$\leq 1.0\%$

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

Data Storage Capacity

- Up to 200,000 results including numeric and graphical information

Communication

- LAN Port supports HL7 protocol

Interface

- USB, LAN
- Support bi-directional LIS

Printout

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

Operating Environment

- Temperature: $10^{\circ}C \sim 30^{\circ}C$
- Humidity: 20%~85%
- Air pressure: 70kPa~106kPa

Power requirement

- 100V-240V
- 50Hz/60Hz

Dimension and Weight

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



LifeDX HBPro VT

HbA1c with variant & β Thalassemia Mode



**HPLC Technology –
Gold Standard Methodology**



**Fast - To Ensure Your Workload
is Processed Promptly**



**Fully Automated -
To Minimize Operation Hassles**



**Precise and Reliable –
To Serve You Consistently**

The fully automated LifeDX HBPro VT offers the fastest available throughput of HbA1c results in just 96 seconds, with Hb variant detection, providing the outstanding solution for quick and reliable diabetic monitoring.

Patients with hemoglobin variants can be in depth analyzed by simple mode change to β - Thalassemia program.



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.
- LifeDX HbPro- VT adopts linear gradient chromatographic elution method, with patented result algorithm, to provide accurate result for clinical diagnosis and treatment



HPLC Methodology

- High Performance Liquid Chromatography (HPLC) separates HbA1c directly by measuring the absorbance points continually to form a chromatogram. Use of normal distribution curve fitting auto-iterative algorithm helps to get precise HbA1c testing results, excluding interference of variant and unstable hemoglobin like HbF. Standard Analysis mode will report HbA1a, HbA1b, HbF, HbA1c, HbA0 peak areas and ratio. The result also includes IFCC, NGSP and eAG value for diverse client needs.

● HPLC Technology – Gold Standard Methodology

- Anchored to the Diabetes Control and Complication Trial (DCCT) Reference Study
- NGSP and IFCC Certified

● Fast - To Ensure Your Workload is Processed Promptly

- HbA1c Results in 96 seconds.
- β - Thalassemia mode in 380 seconds.

● Fully Automated - To Minimize Operation Hassles

- Automated Piercing
- Fully Automated Start - up, Maintenance and Shutdown
- Internal Auto Barcode Scanner for Sample Identification

● User Friendly - To Avoid Operator Error

- 8" TFT Touch Screen LCD with Vivid Color
- Easy to Understand and Pellucid Software
- Only One Type of Sample Rack Required for All Different Tubes

● Flexible - To Satisfy Diverse Laboratory's Needs

- Different Sample Tubes Can Be Loaded in Any Order in Any Rack
- A 110 Sample Loader Available for Laboratory Automation
- Highly Customizable Remarks to Meet Your Needs
- External Laser Printer for Direct Patient Result

● Complex System Functions - For Easy Integration

- USB and RS232 Ports Offer Flexible Connectivity for LIS / HIS Systems
- STAT Position for Emergency Assay

● Compact Size - To Minimize Space Requirements

- Small Footprint Reduces Bench Space Needed

HbA1c Variant Mode

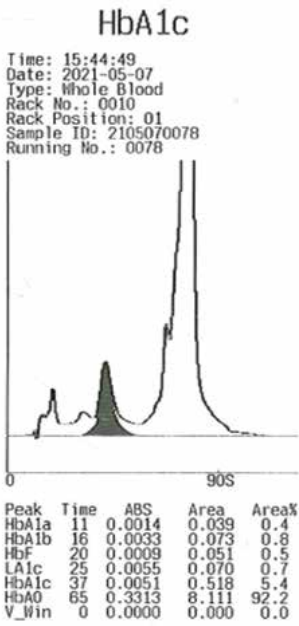
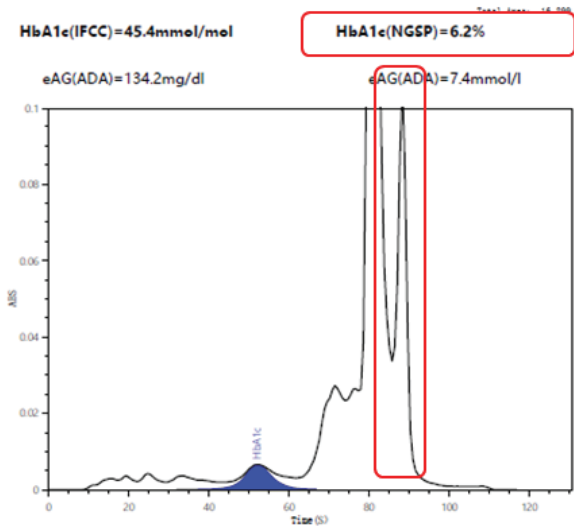
Time Span: 96 seconds/ Test

Reportable Parameters: HbA1a, HbA1b, HbF, LA1c, HbA1c, HbA0, V-Window

Quality assessment qualified, local reference

Name:	Case:	Patient Type:	Test Date: 17:02:09
Gender:	Department:	Sample Type:	Sample Id: 9
Age: 0	Bed no:		

Peak Name	Time(s)	Absorbance	Area	Area(%)
HbA1a	15.0	0.0029	0.191	1.1
HbA1b	21.0	0.0023	0.202	1.2
HbF	31.0	0.0023	0.210	1.2
LA1c	44.0	0.0019	0.172	1.0
HbA1c	52.0	0.0066	0.860	6.2
HbA0	81.0	0.2606	12.239	72.4
V_Window	89.0	0.1019	3.025	18.0



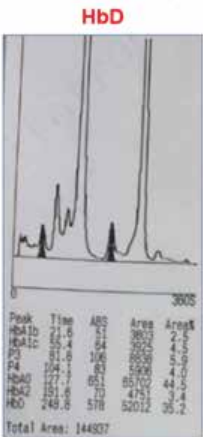
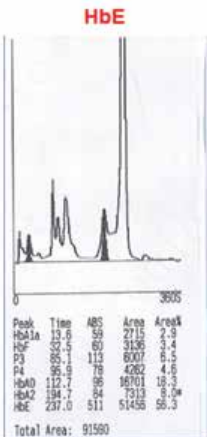
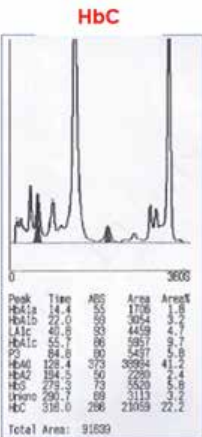
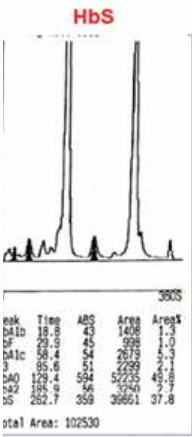
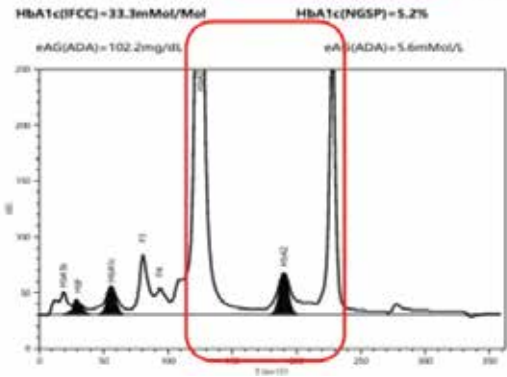
HbA1c	5.4%	-	NGSP
HbA1c	35.5mmol/mol		IFCC
eAG	5.9mmol/l		ADA
eAG	107.9mg/dl		ADA

β- Thalassemia Mode

Time Span: 380 seconds/ Test

Reportable Parameters: HbA1a, HbA1b, HbF, LA1c, HbA1c, HbA0, V-Window, HbA2, HbE/HbD/ HbS/HbC

Peak Name	Retention Time(s)	Abundance	Area	Area(%)
HbA1b	18.8	51	2188	2.4
HbF	29.8	43	1136	1.3
HbA1c	56.2	55	2050	2.3
Hb	81.2	82	4871	5.2
HbA0	94.1	54	2281	2.5
HbA2	128.4	596	52329	58.5
HbE	150.4	66	4881	4.4
HbD	208.0	279	18616	20.7



Specifications

Methodology	High - Performance Liquid Chromatography (HPLC)
Test Modes	Variant Mode, β - Thalassemia Mode
Test Range	3% - 18%
Precision	CV \leq 1.5%
First Sample Result	2.4 Mins
Test Speed	Variant Mode: 96 secs / T , β - thalassemia Mode : 380 secs / T
Sample Type	Venous Blood, Finger Peripheral Blood, Lyophilized Whole Blood
Sample Volume	10 ul (1500 Dilution Rate)
Auto Sample Station	110 Positions + 1 Stat Position
Photometer	415nm + 500nm LED, 20000 Hours Life Span
Chromatography Column	Availabile Tests \geq 3000T (HbA1c)
Filter	\geq 400T
Display	8 " TFT True Color LCD Touch Screen
Software	Embedded System with Self - Diagnosis to Monitor and Detect System Errors
Reagent Kit	Eluent A, Eluent B, Eluent C, Hemolysin, Calibrator, QC Material
Information Input	Scanner or Touch Keypad
Storage	4000 Sample Results
Connection	Rs232, USB, LIS Compatible
Printer	Thermal Printer and External Laser Printer
Operation Temperature	10 ~ 30°C (50 ~ 86°F)
Humidity	10 ~ 70%
Power	AC 100 - 240V 50/60HZ 150VA
Dimensions	580mm× 500mm× 520mm (22.8"H× 19.7"W× 20.5"D)
Weight	50kg (110lbs)
Barcode Scanner	Internal Automated Scan



HELIA[®]

**Total immunoblot
automation from primary
sample tube to result
interpretation**

Fully automated and walkaway line Immunoassay Analyser



Integrated camera



High Capacity



No Extra Consumables



Faster

Integrated Camera: A highly sensitive integrated camera enables total immunoblot automation from primary sample tube through result interpretation. The HELIA[®] system offers a complete walkaway solution.

High Capacity: All AESKUBLOTS[®] vials are designed to fit directly into the HELIA[®] reagent racks. Up to 9 different AESKUBLOTS[®] tests/lots per run. Up to 40 (barcoded) sample tubes per run. Multiple racks are available in order to manage different sample tubes. Up to 5 trays each with 8 AESKUBLOTS[®] strips, up to 40 strips in total.

No Extra Consumables : All conjugates, substrates and sample buffers are provided in the kit

Faster : Using a highly sensitive camera with a 5 megapixel resolution CMOS color sensor enables the HELIA[®] system to eliminate the strip drying step, commonly added at the end of the reaction with other systems.



**Helios is fully automated
processor and analyzer for
IFA**

HELIOS[®]



Fully Automated



High Capacity



Result Confirmation



USFDA Approved

Fully Automated : Fully automated and walkaway IFA analyser. Integrated IFA microscope, camera and pattern recognition software.

High Capacity : Sample Capacity: Up to 190 barcoded samples. Slide Capacity: Up to 20 slides (190 samples)
IFA test capacity: Up to 4 different tests with four different conjugates per run.

Result Confirmation : Result confirmation with end point titre prediction.

USFDA Approved : Aesku Receives FDA 510 (k) Clearance for ANA, DNA, Anti-Neutrophil Cytoplasmic Antibody (ANCA) tests



HELMED

Complete IFA & Blot automation



Unique platform

IFA

IFA processing



Blot processing



Low reagent consumption

Unique platform: All-in-one Processor which has numerous unique and patented features focusing on usability and flexibility, granting access to – IFA and Blot Processing on a single platform.

IFA processing : Up to 20 slides from 4 different tests with 4 different substrates can be processed in just one run.

Blot processing : 40 samples of 9 different tests

Low reagent consumption : Maximize throughput with HELMED's reagent capacity and practicability. Fit AESKUSLIDES and AESKUBLOT reagents, calibrators, and control vials directly into their corresponding positions



AESKU SYSTEMS
THE DIAGNOSTIC AUTOMATION COMPANY

HELMED TECHNICAL SPECIFICATIONS

HELMED® COMMON TECHNICAL SPECIFICATIONS

Sample capacity:	IFA: 190 samples Blot: 40 samples
Sample identification:	Built-in multi-type barcode reader for sample detection and identification
Samples & reagents support:	Customized multi-format extractable racks
Standard sample rack tube size:	75 mm to 100 mm / 13mm diameter tubes and microtubes (2ml)
Dilution fluid:	User choice of wash solution or dedicated diluent solution in the carousel
Pipetting station:	<ul style="list-style-type: none"> • 3 low carbon stainless steel needles. 2 fixed and one retractable • The 3rd retractable needle provides an independent reagent pipetting channel • One peristaltic pump for aspiration of fluids • One peristaltic pump for slide well and MTP well washing • One 50 µl syringe • One 1 ml syringe
Level detection:	Continuous level tracking by conductivity
Minimum sample volume pick-up:	1 µl
Minimum sample volume required:	50 µl
Reagents capacity:	<ul style="list-style-type: none"> • Modular racks with dynamic allocation of positions • Several reagent rack can be combined in the outer ring, each of them with capacity for 16 reagent and controls bottles
Wash solutions:	2 different wash solution
Incubator:	Programmable from RT to 34°C
Software requirements:	PC (not included) with 32 & 64 bits compatible processor. Runs on Windows Vista, 2000 & XP, Windows 7
PC communication port:	Bidirectional USB
LIS link:	<ul style="list-style-type: none"> • IFA: Uni-directional • BLot bi-directional • Conforms to ASTM standards
Programming:	User-friendly software interface including an intuitive easy to use slide & test designer that supports different slide thickness, different well formats, multiple substrates in the same slide, multiple sample dispensing points and multiple number of well rows within the same slide
Certifications:	CE mark and FDA listed
Power consumption:	Without incubator: 50 Watt max. With incubator: 250 Watt max.
Power supply:	Input: 100-240 Volt, 50-60 Hz
Dimensions:	57cm x 62cm x 75cm
Instrument weight:	25 kg

* Only available for IFA module

As part of the “Plug & Play” concept, no tools, hardware modifications nor technical installation are required - Racks are simply held in place by magnets and are recognized by the barcode scanner.

Different SAMPLE TUBE SIZES can be easily interchanged. The machine automatically recognizes the 9 different sample racks by their unique barcode. Everything else is pre-programmed.



**The Omlipo
fully automated analyzer
features a wide test menu and a
throughput of 100 tests per hour.
Added benefits include up to 30
available parameters,
STAT testing options,
enhanced sample-dispensing system,
and reagent RFID system.**

Omlipo®

Nephelometry Based Fully Automatic Specific Protein Analyzer



Smart Pipetting System



User Friendly Sampling System



Auto Reagent System



Carefree Cleaning System

Smart Pipetting System : 3D transferring arm. Probe with liquid level detection and collision protection. Auto tracking of reagent residual to ensure the continuity of analysis

User Friendly Sampling System : 26 sample positions. Both standard blood collection tube and centrifuge tube can be placed in sample disk. STAT samples can be inserted and it's prior to routine samples

Auto Reagent System : 30 positions for reagent. Reagent disk with non-stop cooling functions. Reagent can be auto-identified by RFID technology. Ready to use, liquid reagent

Carefree Cleaning System : Probe can be washed by external internal way

Precise Dispensing System : Teflon piston technology, longer duration Dispensing CV%<1%

Intelligent Software : Intuitive operator interface. Quick view of real time running status. Levey Jennings QC charts. STAT programming

Omlipo

Fully Automatic Specific Protein Analyzer

Suitable for different level of clinical needs

- Throughput: 100 tests/ hour
- 26 positions for samples
- 30 positions for reagents
- Auto identification of reagents by RFID technology
- Onboard reagent cooling
- Probe with liquid level detection and collision protection
- Automatic Antigen Excess Detection function
- Broad test menu, more than 35 assays available
- Desk Top PC along with analyzer



Wide Menu for Specific Protein Analysis

CARDIOVASCULAR DISEASE

Albumin(ALB)
Prealbumin (PAB)
Apolipoprotein A1(ApoA1)
Apolipoprotein B (ApoB)
Antithrombin 3(AT3)
D-Dimer (D-Dimer)
Lipoprotein (A) (Lp(a))

ACUTE PHASE PROTEIN

Whole Blood: C-reactive Protein(bCRP)
C-Reactive Protein(CRP)
Ultra Sensitive C-Reactive Protein (UsCRP)
Serum Amyloid A (SAA)
Haptoglobin (HPT)
Transferrin (TRF)
Ceruloplasmin (CER)
A1-Antitrypsin (AAT)
A1 Acid Glycoprotein(AAG)

KIDNEY DISEASE

Micro albumin (mALB)
a2 Macroglobulin (AMG)
a1 Microglobulin (A1M)
IgG urine (IgGU)
Transferrin Urine (TRFU)
Retinol binding protein (RBP)

IMMUNE DISEASE

Immunoglobulin A(IgA)
Immunoglobulin G(IgG)
Immunoglobulin M(IgM)
Complement 3(C3)
Complement 4(C4)
Antistreptolysin O(ASO)
Rheumatoid Factor (RF)
C1-inactivator (C1IN)

DIABETES

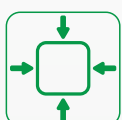
Haemoglobin A1c(HbA1c)

**Compact.
Easy to Use.
Innovative.**

A Perfect Combination

DS2[®]

**2-Plate ELISA
Processing System**



Compact size



Truly open system



User friendly software



2 car garage incubators with shaker

- Small footprint with full automation of steps like automated sample barcode scanning, sample dilution and distribution, incubation, washing, reagent distribution, reading with automatic data reduction. (Dimension 54 x 68 x 66 cm 48 kg)
- DS2 uses multi function robot arm which does all the functions from pipetting to operating barcode.
- Minimal footprint with maximum consumable storage for eg. 216 sample tips, 96 microdilution strips, 20 reagent tips, 8 large and 10 medium reagent bottles, 24 standard and control bottles and holds 100 samples onboard. Able to perform 12 assays per plate
- Easy to use DS Matrix software which can be operated by any minimally skilled technician. Easy assay programming with more than 200 assays already available for the system.
- Audible alarms setting for any additional action to be done. Easy troubleshooting with integrated self- diagnostics.
- Reader with dynamic range of 0-3 O.D, spectral range from 405-690 nm. and 6 filter slots

DSX

4-Plate ELISA Processing System



Modular



Truly open system



4 incubators with shaker



User friendly software

Fully automated 4 plate ELISA processor capable of performing multiple assays per plate

- Fully automated and open system capable of running any ELISA kit.
- Easy to use revelation software for easy assay programming and worklist creation
- Easy to maintain with time saving including removal of consumable and rinsing the washer
- Offers powerful QC equations that monitor daily assays. Revelation incorporates Levey-Jennings statistical analysis as part of the onboard comprehensive QC monitoring of assay performance.
- LIS interfacing available
- Audible alarms for wash buffer low and waste full alarm
- DSX's modular design facilitates upgrades, repairs and reconfiguration. Reader, Sample ID, Ambient Drawer, Electronics Pod (standard), Washer Incubators (space for four) are the modules which can be removed and easily installed.
- Disposable tip usage for zero carry over. Rapid pipetting speed minimizes assay drift, ensuring consistent results across the plate and plate-to-plate.
- DSX's unique washer synchronization feature ensures consistent results across the plate, eliminating plate drift issues and lowering overall CVs. Several user-defined options provide significant programming flexibility.
- The dark, protective cover extends over the entire work area protecting samples, reagents and reactions from exposure to common environmental contaminants such as light, dust or alkaline phosphatase. Eliminates assay interruptions required to place or remove light-sensitive reagents. Clot and foam detection feature, kit detection

Do you have Dynex processor installed in your lab? Contact us for service or sale of the processor with best offer options.

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WITH READER**

**POCT AUTOMATED
NEPHELOMETRIC
PROTEIN ANALYZER**

**RAPID CARD
TESTS**

**ELISA PLATE
READER & WASHER**

**MOTIC IFA
MICROSCOPE**

MICROCENTRIFUGE

**SINGLE PLATE
SHAKER**

**3 PART
HEMATOLOGY
ANALYSER**

**HPLC BASED
FULLY AUTOMATIC
HbA1c ANALYSER**



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ELISA**

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ELISA**

**AUTOIMMUNE
ELISA**

**IMMUNOFLOURESCENCE
KITS**

**IMMUNOBLOTS
LINE IMMUNOASSAY
KITS**

**MANY MORE
OTHER SPECIALITY
ELISA....**





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