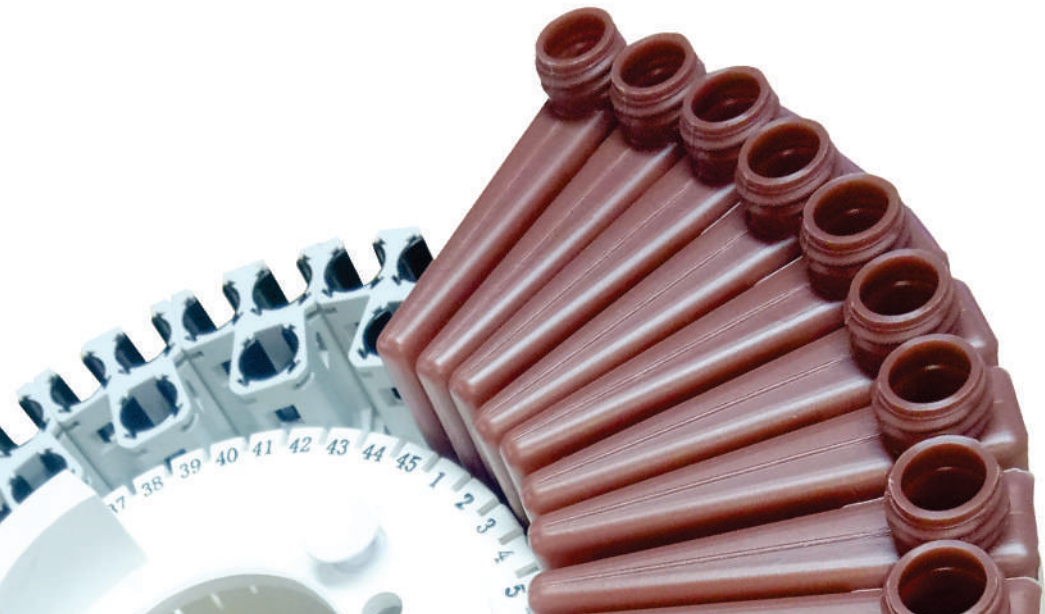


Parameters at a Glance

Item Description	Assay Method	No. of test	Pack Size
Glucose	1 Point End	969	5x65mL
Glucose Hexokinase	2 Point End	814	3x63/3x20mL
Cholesterol	1 Point End	969	5x65mL
Triglycerides	1 Point End	969	5x65mL
HDL-C Direct	2 Point End	517	3x53/3x20mL
LDL-C Direct	2 Point End	273	3x30/3x11mL
Urea U.V	2 Point Rate	713	3x65/3x20mL
Enzymatic creatinine	2 Point End	633	3x52/3x20mL
Uric Acid	1 Point End	844	4x60mL
SGOT	Rate A	814	3x63/3x20mL
SGPT	Rate A	814	3x63/3x20mL
Albumin	1 Point End	775	4x65mL
Total Protein	1 Point End	348	2x50mL
Bilirubin Total TAB	2 Point End	667	3x63/3x8mL
Bilirubin Driect	2 Point End	667	3x63/3x8mL
Alkaline phosphatase	Rate A	814	3x63/3x20mL
α-Amylase	Rate A	347	2x55mL
Gamma GT	Rate A	271	1x65/1x20mL
Calcium (Arsenazo)	1 Point End	231	2x40mL
Inorganic Phosphorus	1 Point End	459	2x65mL
LDH – P	Rate A	273	3x30/3x11mL

Item Description	Assay Method	No. of test	Pack Size
Magnesium	1 Point End	169	2x30mL
CK-NAC	Rate A	171	2x20/1x13mL
ASO	2 Point End	156	2x20/2x8mL
CRP	2 Point End	204	1x50/1x20mL
RF	2 Point End	165	2x20/2x9mL
HbA1c Direct	2 Point End	235	1x50/1x20mL
Microalbumin	2 Point End	167	2x20/2x6mL
CRP Ultra	2 Point End	167	2x20/2x11mL
IgA	2 Point End	156	2x20/2x8mL
IgE	2 Point Rate	141	2x20/2x6mL
IgG	2 Point End	165	2x15/2x15mL
IgM	2 Point End	190	2x20/2x9mL
Lp (a)	2 Point Rate	167	2x20/2x6mL
C3	2 Point End	160	2x19/2x5mL
C4	2 Point End	160	2x19/2x5mL
Apo A1	2 Point End	133	2x20/2x5mL
Apo B	2 Point End	133	2x20/2x5mL
Ceruloplasmin	2 Point End	114	2x20/2x5mL
Cystatin C	2 Point End	167	2x20/2x6mL
Ferritin	Rate A	156	2x20/2x8mL
Prealbumin	2 Point End	119	2x20/2x4mL



ISO 9001:2015
EN ISO 13485:2016

ACCURACY GUARANTEED SYSTEM REAGENTS
Agappe provides the genuine system pack reagents for genuine results

Technical Specifications

System Function:	Automatic, discrete, random access with STAT sample priority
Throughput:	Up to 240 tests/hour
Measuring principles:	Spectrophotometry
Methodology:	End-point, fixed-time, kinetic, Single/dual reagent chemistries, monochromatic/bichromatic linear/non-linear multipoint calibration
Photometric System:	HCFG rear spectrophotometry
Reagent/Sample Handling	
Reagent/Sample tray:	Multi-functional reagent and sample carousel with flexible positions; 24 hour non-stop refrigerated compartment (2~12°C)
Reagent bottle volume:	20ml & 70ml
Reagent volume:	R1: 10~350µl, R2: 10~200µl, step by 1µl
Sample volume:	3~35µl, step by 0.1µl
Reagent/Sample probe:	1, with Liquid level detection, collision detection and inventory checking
Probe cleaning:	Automatic washing both interior and exterior; Carry-over < 0.1%
Sample dilution:	Pre-dilution and post-dilution
Dilution vessel:	UV plastic semi permanent cuvettes
External Bar Code Reader (optional)	For sample and reagent programming; capable to communicate with LIS in a bi-directional mode
Reaction System	
Reaction rotor:	Rotating tray, containing 120 cuvettes (1 set 20 pieces)
Cuvette:	Optical diameter of 6mm
Reaction volume:	150~550µl
Reaction temperature:	37±0.1°C
Reaction disk constant temperature:	Circulating water
Mixing system:	Teflon coated stirrer with triple speed mechanism
Laundry system:	Adopting 8 stops, 12 steps by warm water rinsing
Optical System	
Light Source:	12V/20W, Quartz halogen lamp with hydro cooling system
Wavelength:	340nm, 380nm, 405nm, 450nm, 480nm, 505nm, 546nm, 570nm, 600nm, 660nm, 700nm, 750 or 800nm
Monochromator:	Grating Photometry
Linear range:	0~3.3Abs
Detector:	Silica photo-diode array
Calibration and QC	
Calibration method	Linear (one-point, two-point and multi-point), Logit-Log 4P, Logit-Log 5P, Spline, Exponential, Polynomial
Parabola Control rules:	Westgard multi-rule, L-J Chart
Operation Unit	
PC Operation system:	Windows® XP, Windows® 7, Windows® 10
PC configuration:	CPU > 2.8 Ghz (dual core processor), Memory ≥1GB; Harddisk ≥160GB
Interface:	TCP/IP Network connection, standard RS-232C and USB interface
Working Conditions	
Power Supply:	100~240 VAC 50/60Hz Power 650VA
Ambient Temperature:	15~25°C
Relative Humidity:	40% - 85%
Water consumption:	6L/hour
Dimension:	998x752x517mm (LxWxH)
Weight:	Approx. 120 Kg



PT. MULTIMEDILAB KARYAMANDIRI
MEDICAL & LABORATORY EQUIPMENTS

GP Plaza Lantai 3 Unit 6 Jl. Gelora II No. 01 RT. 01/01,
Kelurahan Gelora Kecamatan Tanah Abang, Jakarta Pusat
10270 – INDONESIA
Telp. (021) 3972-9191 (hunting). Fax. (021) 3972-9195



AGAPPE
YOUR BEST PARTNER IN DIAGNOSTICS



MISPA CXL
Fully Automated Clinical Chemistry Analyzer

YOUR BEST PARTNER IN DIAGNOSTICS

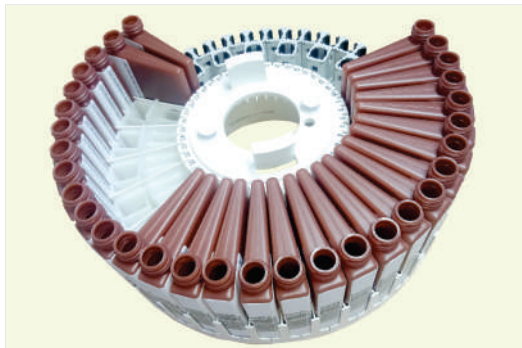
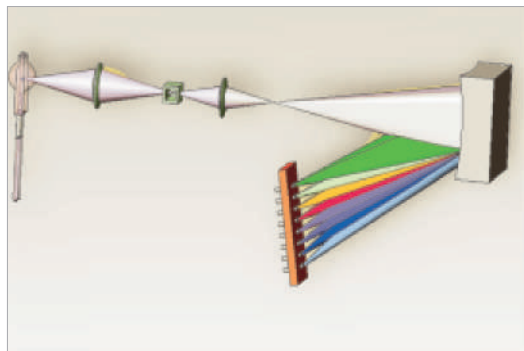


Sample/Reagent Pipetting Mechanism

- Probe with liquid level detection and collision protection
- The syringes are made of long life high precision ceramic piston with low maintenance
- Analyzer has special degassing device to remove air dissolved in tube system for accurate pipetting
- Probe with internal and external washing
- 60nm polished probe with nano coating technology which effectively reduces cross-contamination

Photometry system

- HCFG (Holographic Concave Flat field Grating) rear spectrophotometry reducing ambient light interference
- Photospot technology to reach super trace analysis
- Water cooling method for long lamp life
- Specially designed lamp placement to reduce signal attenuation and interference
- 12 wavelengths ranging from 340nm to 800nm

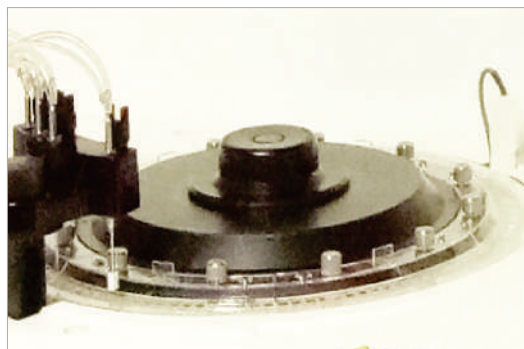


Multi-function sample & reagent carousel

- Total 67 positions including reagent and sample, user defined proportion of reagent and sample positions
- 24 hour continuous cooling condition ensures the quality of reagent control and calibrator
- Can accommodate 20ml and 70ml reagent bottles
- Primary sample tube can be used
- Barcode reading facility
- Single/double reagent testing

Constant Temperature Reaction Cuvettes

- Adopts a recycling water constant temperature device
- Automatically changing water and adding de-foamer
- PID thermostat technology to ensure temperature $37 \pm 0.1^\circ\text{C}$
- Laundry adopting 8 Stops, 12 steps, two time recycling detergent and warm water rinsing



Mispa CCXL is a fully automated clinical chemistry analyzer with throughput of 240 T/H. Mispa CCXL is a logical choice for customers in various segments, ensuring convenience, flexibility, affordability & accuracy.

Photometric throughput of 240 Tests/hour

Multifunctional sample & reagent carousel

HCFG photometry system

Waterfall washing system

Efficient laundry system adopting 8 stops 12 steps

Constant temperature reaction cuvettes

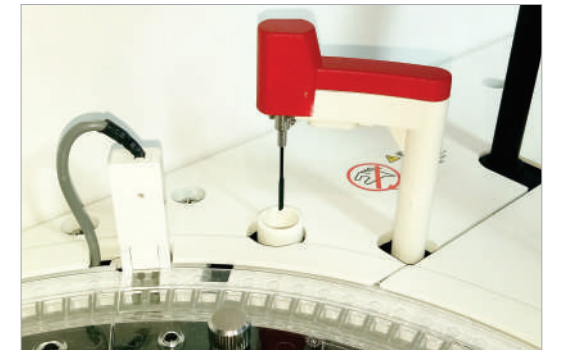
Hydro cooling system for enhanced lamp durability

Teflon coated stirrer with triple speed mechanism



Mixing System

- Triple speed stirrer mechanism for optimal mixing
- Teflon coated stirrer ensures no carry over effect
- Flat paddle stirrer offers homogeneous mixing
- Enhanced durability due to minimal maintenance

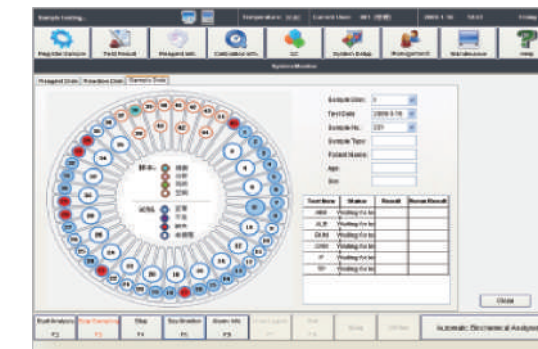
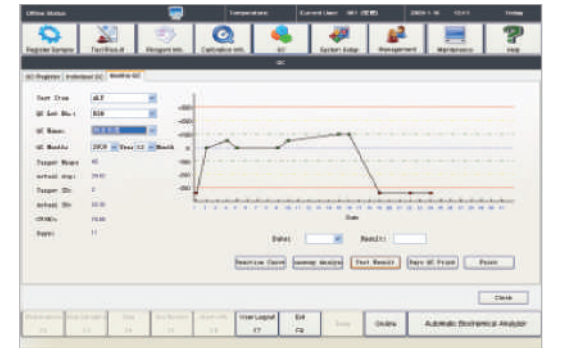


Semi-Permanent Reaction Cuvette

- 1 Set 20 Pieces
- 6 Sets 120 Pieces
- UV Plastic semi-permanent cuvettes ensures cost saving, anti-corrosion and enhanced durability of 9 to 12 months

Calibration and QC Program

- Linear and non linear calibration with 9 types of calibration curve
- 6 different levels of calibrator for each item can be programmed
- Calibration tracing possibility depicting calibration K value variation trends, help reduce system errors
- QC with Westgard multi rules
- QC plot with L-J and cumulative statistics
- Automatic error reporting compliant with lab QC management



User Friendly Software

- Simple and user friendly software
- Real time online help system
- Multiple self monitoring to ensure high data efficiency
- Multiple report formats with automatic print function
- Serum indices available
- Carryover prevention program available
- Sample auto dilution with user define conditions (3 - 115 times)

AUTOMATION AT ITS FINEST

PROBES WITH NANO COATING TECHNOLOGY