

Overall performance

Equipment type	Fully automatic, discrete, STAT priority
Analysis rate	Colorimetry speed 240T/H (single/double reagent)
Test principle	Colorimetry, turbidimetry
Analysis method	End-point, kinetics, fixed-time, etc.
	Support single/double wavelength and 1-2 multiple reagent item,
	linear and non-linear calibration

Sample reagent unit

Sample reagent position	The reagent and sample share one disk, totally 67 positions.
	Continuously cooling at all positions to keep 5~15°C within 24 hours
Sample cuvettes specification	Standard cup, original blood tube, multi-specification tube available (Φ12~16)mm×(25~100)mm
Sample volume	3μl~35μl, 0.1μl stepping
Reagent volume	R1:10μl~350μl, R2:10μl~200μl, 1μl stepping
Sample reagent probe	1, with the function of liquid level detection and collision detection
Sample reagent probe carrying rate	Automatic warm water cleaning. Carrying rate ≤0.1%
Automatic sample dilution	3~115

Reaction unit

Reaction cuvette	120 positions optical plastic cup, optical diameter is 6 mm
Total volume of reaction liquid	150μl ~ 550μl
Reaction temperature	37°C, ±0.1°C
Reaction disk constant temperature	Circulating water
Mixer	1, after joining reagent, blending immediately
Reaction cuvette cleaning	8 stops 12 steps by warm water rinsing
Wastewater treatment	With the function of concentrated waste liquid level alarming

Optical system

Light source	20W/12V halogen lamps.
Monochromator	Grating photometry

Photoelectron road	After spectrophotometry
Wavelengths	340nm, 380nm, 405nm, 450nm, 480nm, 505nm, 546nm, 570nm, 600nm, 660nm, 700nm, 750nm or 800nm
Detector	Photodiode array
OD linear range	0 ~ 3.3Abs

Calibration and QC

Calibration method	1 point linear method, 2 point linear method, multiple point linear method, non-linear method
Calibration tracking	Automatic description calibration K-value trends
QC method	Real-time QC, individual QC and monthly QC
Out of control processing	Alarming for out of control sample, record lost control reason

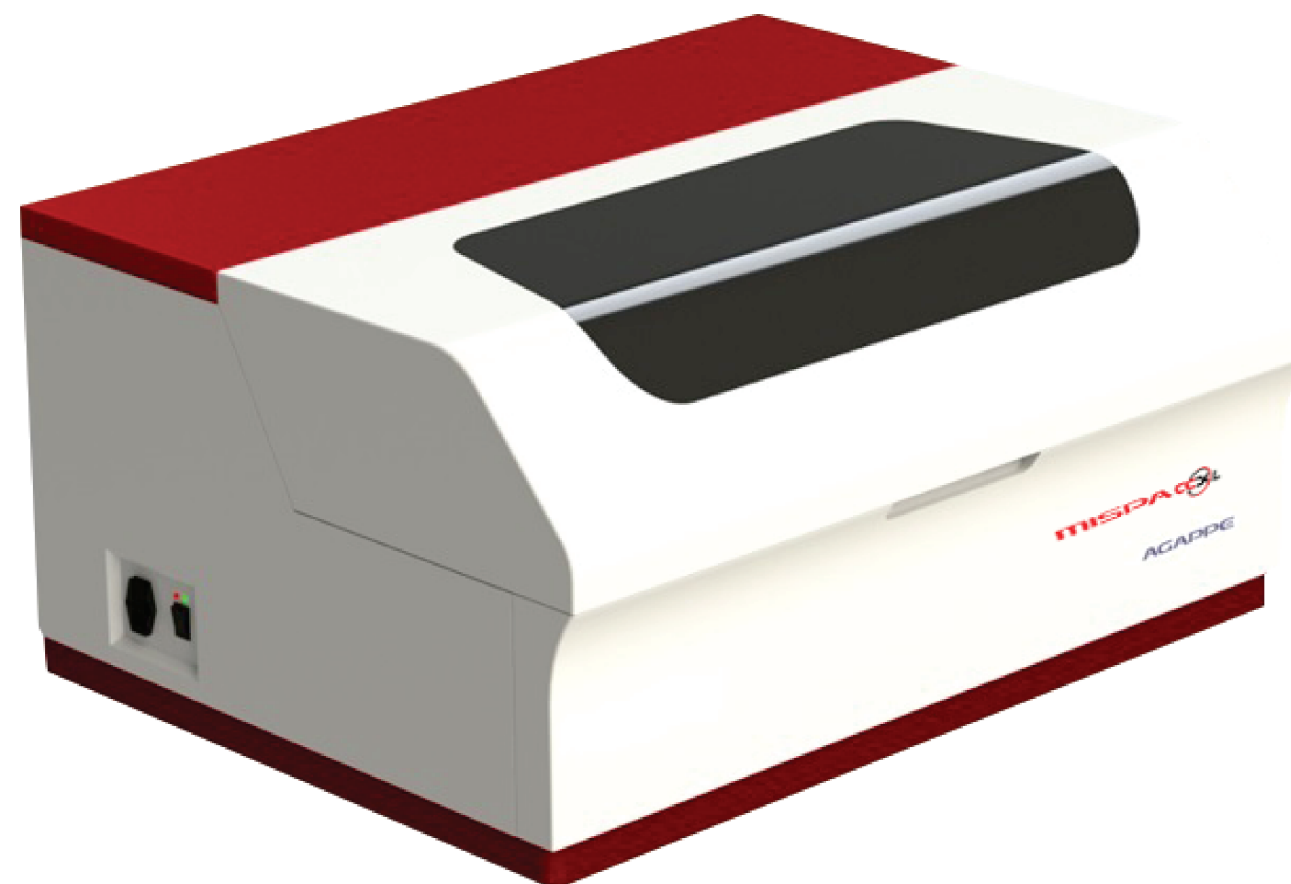
Operating system

PC operating system	Windows XP
Analysis control software	Graphical operating software english version
Main function of software	Automatic calibration, automatic barcode scanning, item compounding test, reagent info management, serum index, whole reaction process monitoring, dirty cup memory evading, prevent cross-contamination procedure, patient information memory and association input, automatic report audit, data multiple parameter query, report format statistic and printing, reference range classification, alarming information classification, user operating right classification, automatic dormancy and wake, real-time online help
Report printing	Report formats support the user-defined mode, QC and state information etc.
PC configuration	CPU ≥2.2GHz(dual-core processor); Memory ≥1G; Harddisk ≥ 160G; 17 inch LCD display; Stylus, inkjet or laser printer (optional)
System connection	TCP/IP network connection, standard RS-232C

Others

Volume	998mm×752mm×517mm
Weight	120kg
Power supply	Voltage AC 220V±22V, 50/60Hz, power 650VA

Company reserves the right to change any design and technical features of the product at any time, if needed.



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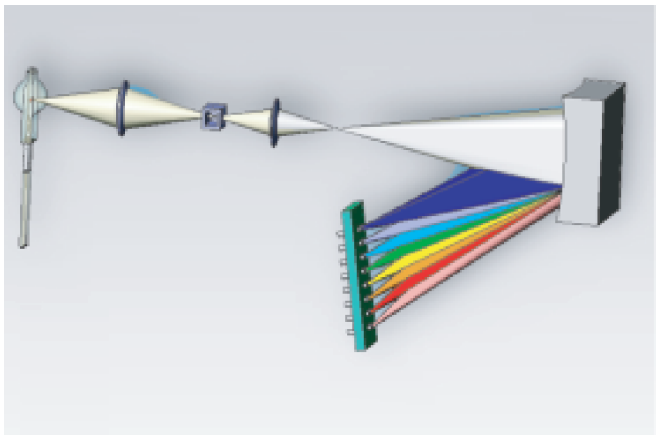
ADU/BRQ/PMT/011/2015/R02

DO WORK SMART AND SIMPLE



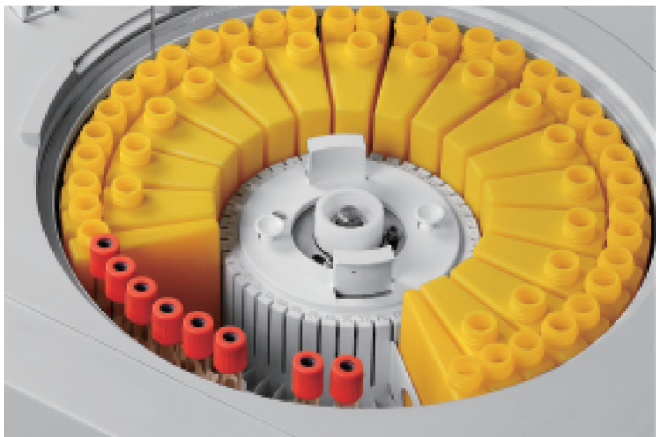
- Probe with liquid level detection and collision protection
- The syringes are made of long life high precision ceramic piston with low maintenance
- Analyzer has special degassing device to remove air dissolved in tube system for accurate pipetting
- Probe with internal and external washing

Sample/reagent pipetting mechanism



- 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

Photometry System



- Total 67 positions including reagent and sample, user defined proportion of reagent and sample positions
- 24 hour continues cooling
- Can accommodate 20 mL, 70 mL and 100 mL reagent bottles
- Primary sample tube can be used
- Barcode reading facility

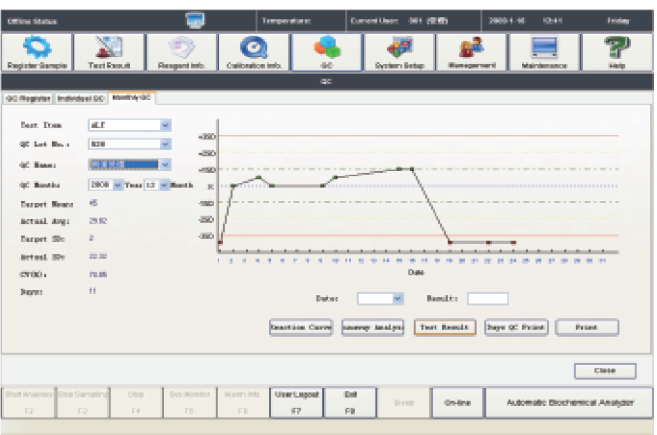
Multi-function sample & reagent disk

Teflon Coated Stirrer to Reduce Carry Over



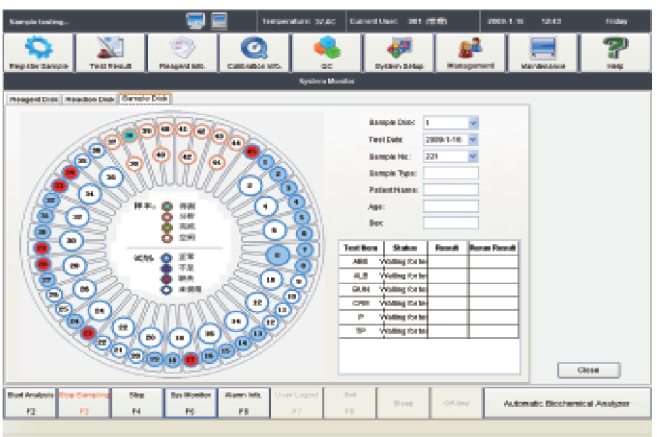
- Adopts a recycling water constant temperature device
- Automatically changing water and adding defoamer
- PID thermostat technology to ensure temperature $37 \pm 0.1^{\circ}\text{C}$
- Laundry adopting 8 Stops, 12 steps, two time recycling detergent and warm water rinsing

Constant Temperature reaction cuvettes



- 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 LJ and cumulative statistics
- Automatic error reporting compliant with lab QC management

Calibration and QC programme



- 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)

User friendly software

Probes with Nano Coating Technology