

### 1. Overall Performance

Equipment Type	: Fully Automatic, discrete, STAT priority
Throughput (theoretical max)	: 300T/H for photometry tests only 450T/H for only ISE tests
Test Principle	: Colorimetry, turbidimetry, ISE
Analysis Method	: End-point, kinetics, fixed time, etc. Support single/double wavelength and 1-2 multiple reagent item, linear and non linear calibration
Simultaneous analysis item	: 66 colorimetric items and 3 ISE items (K, Na, Cl optional)

### 2. Sample Unit

Sample Position	: 115 sample positions, including 50 routine sample positions, 20 STAT positions, 34 calibrations positions, 8 QC positions, 3 detergent positions
Sample Cuvettes Specification	: Standard cup, original blood tube, multi-specification tube available ( $\varnothing$ 12-16 mm x 25-100 mm)
Sample Barcode	: 12 of 5, code 128, code 39, UPC/EAN, code 93
Sample Volume	: 2 $\mu$ - 350 $\mu$ L, 0.1 $\mu$ L stepping
Sample Technology	: Liquid level detection and collision detection
Sample Probe	: Automatic warm water cleaning
Carrying Rate	: Carrying rate $\leq$ 0.1%
Automatic Sample Dilution	: 3-170 times

### 3. Reagent Unit

Reagent Probe	: 1, with the function of liquid level detection and collision detection
Reagent Volume	: 20 $\mu$ L - 350 $\mu$ L, 1 $\mu$ L stepping
Reagent Position	: single reagent disk, maximum 67 positions available, continuous 5-15 <sup>o</sup> C cooling within, 24 hours, loading 70 ml, 20 ml or 100 ml standard reagent kit
Reagent Barcode	: code 128
Reagent Probe Carrying Rate	: Automatic warm water cleaning. Carrying rate $\leq$ 0.1%

### 4. Reaction Unit

Reaction Cuvette	: 120 optical plastic cup, optical diameter is 6 mm
Total Volume of Reaction Liquid	: 150 $\mu$ L - 450 $\mu$ L
Reaction Temperature	: 37 <sup>o</sup> C, $\pm$ 0.1 <sup>o</sup> C
Reaction Disk Constant	: Circulating water
Temperature Mixer	: 1, after inputting reagent, blending immediately
Wastewater Treatment	: two difffluence for high and low concentration waste water. With the function of concentrated waste liquid level alarming

## 5. Optical System

Light Source	: 20W / 12V halogen lamps
Monochromator	: Grating photometry
Photoelectron road	: Rear spectrophotometry
Wavelength	: 340nm, 380nm, 405nm, 450nm, 480nm, 505nm, 546nm, 570nm, 600nm, 660nm, 700nm, 750nm or 800nm
Detector	: Photodiode LED array
OD Linear range	: 0-3.3 Abs

## 6. Calibration and QC

Calibration	: 1 point linear method, 2 point linear method, multiple point linear method, non-linear method
Calibrating Tracking	: Automatic description calibration K-Value trends
QC Methods	: Real-time QC, individual QC and monthly QC
Out of Control Processing	: Alarming for out of control sample, record lost control reason

## 7. Operating System

PC Operating System	: Windows XP
Analysis Control Software	: English version graphical operating software
Main Function of Software	: Automatic, 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, alarm for daily, weekly and monthly maintenance
Report Printing	: Report formats support the user-defined mode, QC and state information, etc
PC configuration	: CPU $\geq$ 2.2GHz (dual-core processor); Memory $\geq$ 1G; Harddisk > 160G; 17 inch LCD display; Stylus, inkjet or laser printer (optional)
System connection	: TCP/IP network connection, standard RS-232C

## 8. Others

Volume	: 1060 mm x 790 mm x 1150 mm
Weight	: 230 Kg
Power Supply	: Voltage AC 220V $\pm$ 22V, 50/60 Hz, power 1.5kVA