



## AU120

Auto Chemistry Analyzer

**Precise, Compact, and Stable**



### System Function

Category	Random access, fully automatic chemistry analyzer
Throughput	Constant throughput 90t/h
Methodology	End point, Fixed Time, Kinetic
Reagent	Closed system
Reagent Position	20-40 positions (20 fixed+20 interchangeable)
Sample Position	20 positions (interchangeable)
Minimum Reaction Volume	150 $\mu$ L
Carryover	<0.01%
Water Consumption	Low to 1.8L/Hour
Maximum Reaction Time	20.67 minutes (Single reagent). 14.67 minutes (Dual reagent)
Maximum Reaction Volume	400 $\mu$ L
Principle	Colorimetry, Turbidimetry



SCAN ME



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## Sample Reagent Probe & Mixer

Sample Mode	Random access, STAT sample Priority
Sample Volume	2-50 $\mu$ L, step by 0,1 $\mu$ L
Sample Disk	20 positions (interchangeable)
Sample/reagent Probe	One probe for sample and reagent with liquid level detection, vertical and horizontal collision protection and reagent volume real time monitoring function
Sample Tube	Regular sample tube, Vacuum tube, eppendorf tube, plastic tube, etc.
Reagent Volume	R1: 150-450 $\mu$ L, R2: 10-300 $\mu$ L, step by 1 $\mu$ L
Reagent Disk	20-40 positions (20 fixed+20 interchangeable), 24 hours cooling, 4-12°C
Reagent Bottles	Compatible with Olympus and Hitachi reagent bottles
Mixer	High polished nano material mixer (Tentative)

## Reaction System

Reaction Cuvettes	50 cuvettes, semi-permanent rigid UV special plastic cuvettes
Wash Station	4-cleaning needles auto wash station
Reaction Temperature	37 $\pm$ 0.3°C
Heater	Metal thermostat for reaction disk
Lamp	Halogen Tungsten lamp, about 2000hours
Filter	FMSS (Full-sealed Matrix Spectrometric System)

## Optical System

Wavelength	8 wavelengths; 340, 405, 450, 510, 546, 578, 630, 670nm(800nm, 700nm and 670nm optional)		
Resolution	0,0001Abs		
Linearity Range	0-3,5Abs(340nm),0-4.0Abs(510nm)	CV	<1.5%
Accuracy	0,5A: < $\pm$ 0.02Abs, 1,0A: < $\pm$ 0.04Abs	Center Wavelength Deviation	$\leq \pm$ 2nm
Stray Light	>4.5	Detector	Photodiode detector array

## Cal & QC

Calibration Mode	One point linear, two point linear, multi point linear, Logit-4P, Logit-5P, spline, exponential, polynomial
Calibration Curve	Calibration curve auto check, auto curve fitting
QC Rule	Westgard multi-rule, Cumulative sum check, Twin Plot
QC Curve	Westgard multi-rule, Cumulative sum check, Twin Plot
QC Warning	Out of control auto warning, data automatic record and analysis

## Software

Data Storage	Decided by Internal memory capacity
LIS Interface	Bi-LIS interface
Print Mode	Multi default formats, user-defined formats
System Monitor	Realtime monitoring for sample disk, reagent disk, reaction disk, real time monitoring for QC status. Realtime monitoring for reaction cuvettes status, lamp status and temperature. Real time monitoring for reagent volume, reaction curve, calibration curve and QC curve. Linearity range limitation. substrate exhaustion judgement and prozone detecting. Abnormal status warning. User authority setting, test panel function, calculated/manual parameters programing, carryover
Other Function	Setting, sample and reagent blank auto calculation, automatic failure recovery, automatic print data static, auto/manual dilution test, auto retest.
PC configuration	Embedded computer
Operating System	Linux
Monitor	10.4-inch touch screen
Dimension	(D) 64 x (W) 50 x (H) 45 cm
Power Supply	AC 100-240V, 50/60Hz $\pm$ 1Hz, $\leq$ 350VA
Net Weight	30Kg
Optional Parts	Barcode reader, water purification module, External printer



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