

Specifications

System Function	Category	Random access, fully automatic chemistry analyzer	
	Throughput	200 tests / hour	
	Methodology	End point, Fixed Time, Kinetic	
	Reagent	Open system	
	Reagent Position	40	
	Sample Position	40	
	Minimum Reaction Volume	150uL	
	Carryover	<0.005%	
	Water Consumption	Low to 1.8L/Hour	
	Maximum Reaction Time	18 minutes (Single reagent), 12 minutes(Dual reagent)	
Sample Reagent Probe & Mixer	Maximum Reaction Volume	500 uL	
	Principle	Colorimetry, Turbidimetry	
	Testing Mode	Regular mode(single&dual reagents), fast mode(single reagent)	
	Sample Mode	Random access, STAT sample priority	
	Sample Volume	2~50uL, step by 0.1 uL	
	Sample Disk	40 positions	
	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 (13 x 100mm, 13x75 mm, 12x100 mm, 12x75 mm), Vacuum tube, eppendorf tube, plastic tube, etc.	
	Reagent Volume	R1:150-450 uL, R2:10-300uL, step by 1uL	
	Reaction System	Reagent Disk	40 reagent positions, 24 hours water cooling, 4-12°C
Reagent Bottles		Compatible with Olympus and Hitachi reagent bottles	
Mixer		High polished nano material mixer	
Reaction Cuvettes		50 cuvettes, semi-permanent rigid UV special plastic cuvettes	
Wash Station		6-step auto wash station	
Reaction Temperature		37±0.1°C	
Heater		Metal thermostat for reaction disk	
Lamp		Halogen Tungsten lamp, 12V20W, about 2000hours, water cooling system	
Filter		FMSS(Full-sealed Matrix Spectrometric System)	
Optical System		Wavelength	8 wavelengths: 340,405,450,510,546,578,630,670nm
	Resolution	0.0001Abs	
	Linearity Range	0-3.5Abs	
	Accuracy	0.5A: < ± 0.02AbS, 1 .0A: < ± 0.04Abs	
	Stray Light	>4.5	
	Stability	<0.01Abs/hour	
	CV	<1.5%	
	Half Band Accuracy	≤ ±2nm	
	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	
Operating System		Windows 7/10	
Data Storage		Decided by computer hard disc capacity	
LIS Interface		Bi-LIS interface	
Print Mode		Multi default formats, user-defined formats	
Software		System Monitor	Real time monitoring for sample disk, reagent disk, reaction disk. Real time monitoring for QC status. Real time 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.
	Other Function	User authority setting, test panel function, calculated/manual parameters programing, carryover setting, sample and reagent blank auto calculation, automatic failure recovery, automatic print, data statistic, auto/manual dilution test, auto retest.	
	PC Configuration	CPU 2.5GHz, memory 4GB, hard disc 500G 19 inch widescreen monitor	
	PC Interface	RS-232C	
	Others	Dimension	720(L)x 450(D) x 550(H)
		Power Supply	AC 100-240V, 50/60Hz ± 1 Hz, ≤350VA
		Net Weight	50Kg
		Optional Parts	Barcode reader, Water purification module, PC with touch screen, HP laser printer

Alpha Chem²⁰⁰ plus

Auto Chemistry Analyzer

Precise, Fast and Stable

Alpha Chem 200 Plus - with onboard Washing
Alpha Chem 200 - without onboard Washing



Alpha Technologies

Plot No. 65, Rukmani Nagar, 3rd Street,
Maduravoyal, Chennai - 600 095
State/Province : Tamilnadu
Country : India. Ph : 044-2378 1214
Mob: +91 9444087961
Mail: info@alphatechnologiesindia.com
website: www.alphatechnologiesindia.com



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User Friendly Software

- Easy operate with iconic interface
- Multi-language available
- Easy reagent parameters setting
- Support batch request, panel/calculation test
- Print out report template editable
- Auto troubleshoot failure and recovery
- Powerful statistic system
- Manual dilution, auto dilution and post dilution
- Easy rerun and restore test

Calibration & QC

- Multiple calibration mode
- Advanced algorithm to obtain best calibration curve
- Multi QC rules: Westgard, Cumulative sum check, Twin plot



Real Time Monitoring

- Reaction curve, calibration test and QC test curve
- Sample, reagent and reaction cuvette status
- Lamp intensity, water tank and waste tank status
- Reaction disk and reagent disk temperature

Alpha Chem 200 plus

Auto Chemistry Analyzer



Reaction System

- 50 high light transmittance reaction cuvettes
- Metal thermostat ensures stable temperature: 37°C
- Auto water blank test ensures precise results



Sample & Reagent Disk

- 24 hours reagent refrigerator: 4–12°C
- Noise free water cooling design
- 40 positions for reagent
- 40 positions for sample with STAT priority
- Optional barcode scanner available



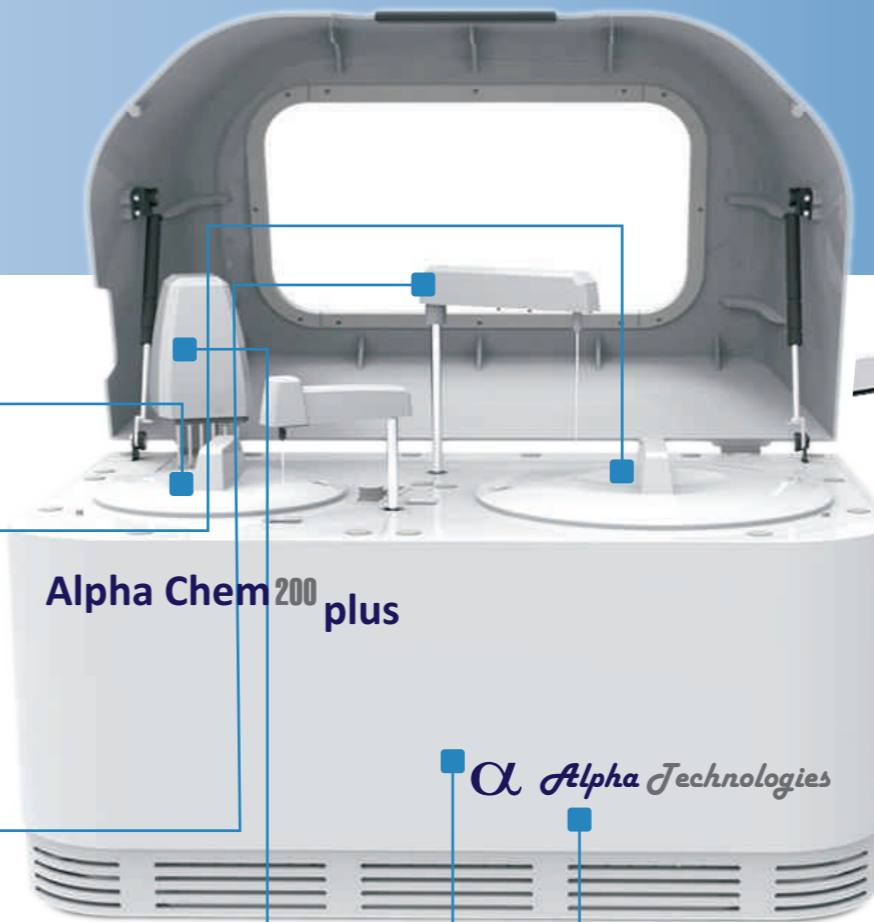
Sampling System

- High polished nano material sample/reagent probe
- High accuracy ceramic syringe
- Auto depth adjustment
- Liquid level detection, vertical and horizontal collision protection
- Maintenance free rotor with stable movement



Anti-contamination Design

- 6-step wash station washes cuvettes with wash solution
- High polished nano material mixer
- Automatic probe and mixer washing
- Intelligent anti-contamination program

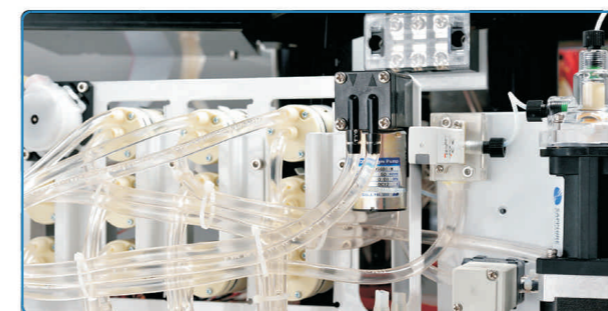


Optional

- Internal PC with touch screen
- Barcode Reader

Fluid System

- Branded components including: IWAKI pump, SMC valve, Ceramic syringe, THOMAS peristaltic pump, Tygon tubing and CPC tubing couplings
- Built-in degasser ensures precise sampling



Optical System

- Halogen tungsten lamp with about 2000H life time
- Full-sealed matrix spectrometric system
- Simultaneously dual wavelength detection to avoid interference
- Silent water cooling design

