

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	<0.01%
Water Consumption	Low to 5L/Hour
Maximum Reaction Time	14 minutes (Single reagent), 10 minutes(Dual reagent)
Maximum Reaction Volume	400 uL
Principle	Colorimetry, Turbidimetry, ISE analysis method
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
Reagent
Probe
&Mixer

Sample Tube	Regular sample tube Vacuum tube, eppendorf tube, plastic tube, etc.
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Reaction
System

Reagent Volume	R1:150-450 uL, R2:10-300uL, step by 1uL
Reagent Disk	40 reagent positions, 24 hours water cooling, 4-12℃
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-cleaning needles auto wash station
Reaction Temperature	37±0.3℃
Heater	Metal thermostat for reaction disk

Optical
System

Lamp	Halogen Tungsten lamp, 12V20W, about 2000hours, water cooling system
Filter	FMSS(Full-sealed Matrix Spectrometric System)
Wavelength	8 wavelengths: 340,405,450,510,546,578,630,670nm
Resolution	0.0001Abs
Linearity Range	0-3.5Abs(340nm),0-4.0Abs(510nm)
Accuracy	0.5A: < ± 0.02AbS, 1 .0A: < ± 0.04Abs
Stray Light	>4.5
Stability	<0.01Abs/hour
CV	<1.5%
Center Wavelength Deviation	±2nm

Cal&QC

Detector	Photodiode detector array
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

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
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.
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Others

PC Configration	CPU 2.5GHz, memory 4GB, hard disc 500G 19 inch widescreen monitor
PC Interface	RS-232C
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, ISE module, Water purification module, PC with touch screen, External printer

AU200

Auto Chemistry Analyzer

Precise, Fast and Stable



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

AU200

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



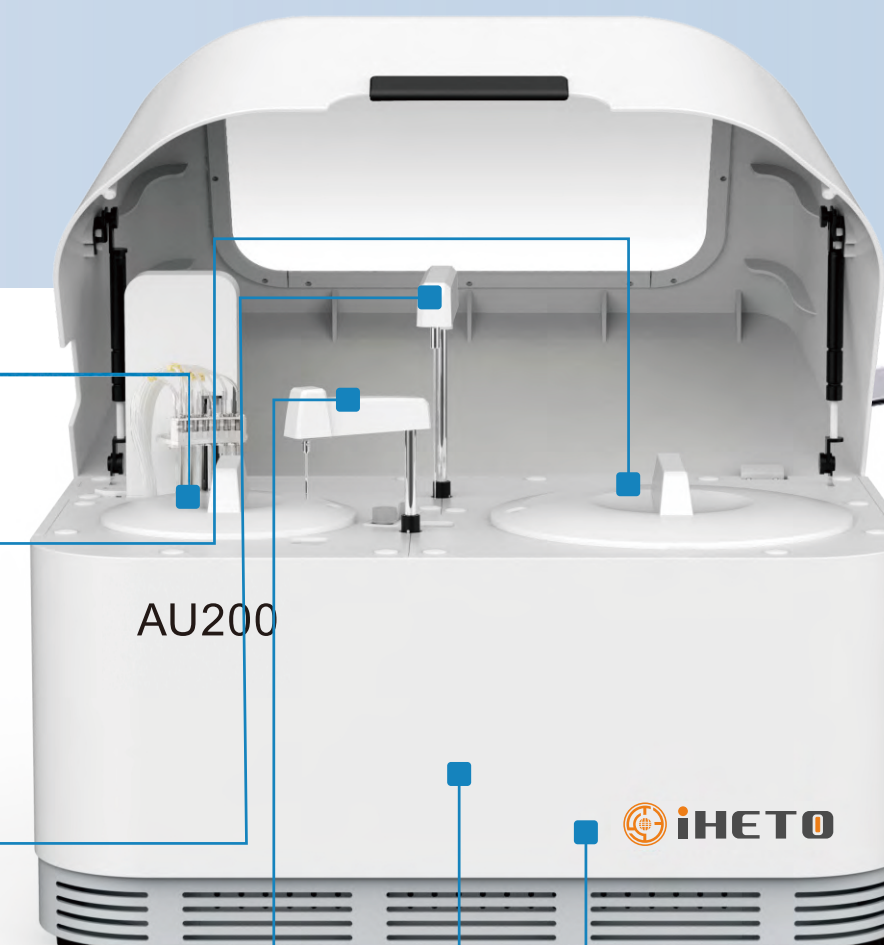
Sampling System

- 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

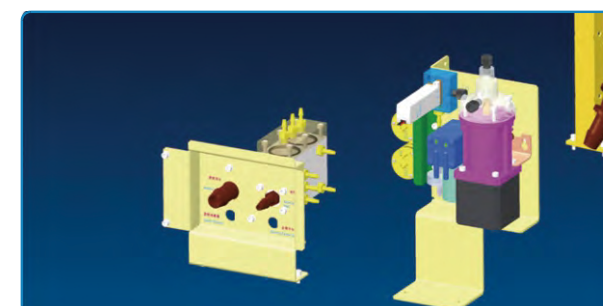


Optional

- 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

