

Specifications

System Function

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|-------------------------|---|
| Category | Random access, fully automatic chemistry analyzer |
| Throughput | 150 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) |
| 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 Reagent Probe & Mixer

| | |
|----------------------|---|
| 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. |

Reaction System

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|----------------------|---|
| Reagent Volume | R1:150-450 uL, R2:10-300uL, step by 1uL |
| 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 |

Optical System

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|--------------------|--|
| 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 |
| Accuracy | 0.5A: < ± 0.02AbS, 1 .0A: < ± 0.04Abs |
| Stray Light | >4.5 |
| Stability | <0.01Abs/hour |
| CV | <1.5% |
| Half Band Accuracy | ≤ ±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. |

Others

| | |
|------------------|--|
| 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 |
| 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 |

AU150-PW

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

AU150-PW

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

