

| Instrument Specification | |
|--------------------------|--|
| Instrument Type | Fully automatic random access chemistry analyzer |
| Throughput | Constant speed 430 T/H, 620 T/H with ISE |
| Testing Method | One-point end, two-point end, rate (kinetic), two points rate, mono/double wavelength, eliminate reagent and sample blank immunoturbidimetry |
| STAT Function | Emergency samples can be added during routine test |

| Sample System | |
|---------------------|---|
| Sample Disk | 80 sample positions (including routine sample, calibration, QC and STAT positions), support primary tubes and sample cup, and 119 sample positions version optional |
| Collision Detection | Probes and washing arm collision protection |
| Sample Probe | Inner & outer high polished probes with low carry over Liquid level detection Volume tracking function during aspiration |
| Sample Volume | 1.2~35 µL, variable in 0.1 µL |

| Reagent System | |
|----------------|---|
| Reagent Disk | 80 positions compatible with several types of bottles |
| Cooling System | Independent 2~8°C 24 hours non-stop cooling system |
| Washing System | Warm water washing for cuvettes and both inner and outer of the probes |
| Reagent Probe | Inner & outer high polished probe with low carry over Reagent volume tracking function during aspiration |
| Reagent Volume | 10~400 µL, variable in 0.5 µL |

| Optical System | |
|----------------|--|
| Light Source | Filter type post-splitting with |
| Optical System | 12 wavelengths 340nm, 380nm, 405nm, 450nm, 505nm, 546nm, 578nm, 600nm, 660nm, 700nm, 750nm, 800nm |

| Reaction System | |
|-------------------|---|
| Reaction Cuvette | 120 high permeable UV cuvettes Hard glass cuvette optional |
| Washing System | 8-probe 10-step with detergent Extra cleaning optional for specific test items |
| Mixing System | 2 individual stirrers |
| Reaction Volume | 90~400 µL |
| Incubation System | Air bath heating 37 ± 0.1°C |

| Calibration and QC | |
|--------------------|--|
| Calibration | Linearity calibration (single point, two points, multi points) Non-linearity calibration (Logit–Log4P, Logit–Log5P, exponential function, spline, exponential 5P, parabola, Wei Bull) |
| QC Rules | Westgard multi-rules, Levey–Jennings rules and diverse levels of QC |

| Operation System | |
|-------------------|--|
| Operation System | Windows 7, 10 |
| Testing Sequence | Programmable test sequence Maximize test speed and minimize carryover |
| Advanced Features | Reaction reading points traceable after test cycle finish Exceed linearity and high concentration sample auto-dilution Real-time monitoring reaction process Bi-directional LIS/HIS |
| LIS Protocol | Various editable customized formats |
| Report | Depend on PC host memory capacity |
| Data Storage | |

| Others | |
|-------------------|---------------------------------|
| Dimension | 950mm(L) × 643mm(W) × 1114mm(H) |
| Instrument Weight | 171.5 kg |
| Water Consumption | ≤15 L/H during operation |



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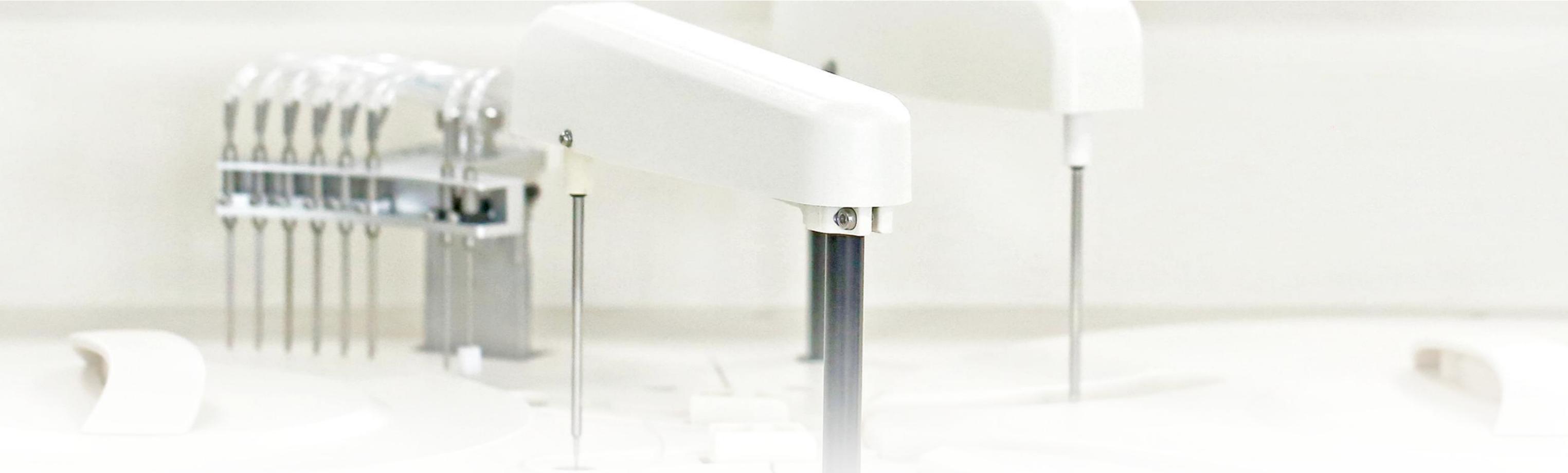
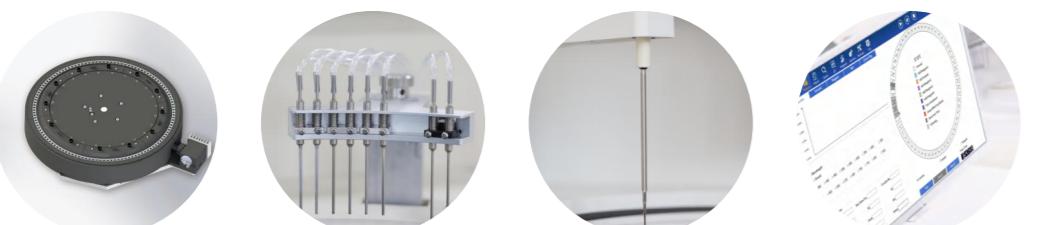
CA-431A Automatic Chemistry Analyzer

Constant 430 T/H, 620 T/H with ISE
User Friendly Interface, Tailor-Made
High System Reliability
Minimal Intervention Demands

Guilin, China



- Constant 430 T/H, 620 T/H with ISE
- 80 sample positions, 80 reagent positions and 120 reaction cuvettes
- Air bath heating incubation system
- 24 hours non-stop, 2~8°C constant ice-free cooling system
- Filter type post-splitting optical system
- Probes & washing arm collision protection
- User-friendly software, easy operation
- Bi-directional LIS/HIS



Minimize Operator Time

- Real-time monitor temperature, distilled water and waste
- One-key pause sample & reagent disk during testing to add new samples and reagents
- Integrated inner bar code reader for sample & reagent



Real-time Workflow Follow Up

- Control all operations from main interface (routine, STAT, temperature, etc.)
- Multiple alarms, auto-retest and auto-dilution functions for over linearity or substrate exhausted samples
- Reaction curve saved for every test
- Calculated results available



Increase Productivity

- 620 T/H with ISE module
- 120 reaction cuvettes and 20 dummy sample trays
- 84 on-board parameters



Minimal Intervention Demands

- Auto clean cuvettes clean before & after testing
- Auto lamp sleep function to prolong life span
- Software data auto-backup function
- Auto exhausting pipeline air bubbles



Guarantee High Quality Results

- $37 \pm 0.1^\circ\text{C}$ reaction incubation by air bath heating system
- 2~8°C, 24 hours non-stop sample and reagent cooling system
- 0.1 μL variable sampling accuracy
- 12 wavelengths and free maintenance filter post-splitting optical system



URIT Reagent

- Ready to use reagent
- Liquid formulation packaged in bar coded cartridges for on-board use
- Multi-positions for same reagent on-board, the analyzer will switch to the next one when one cartridge is finished
- Traceable QC and standard materials