Instrument Specification

Instrument Type	Fully automatic random access chemistry analyzer
Throughput	Constant 150 T/H
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	16 sample positions (including routine sample, calibration, QC and STAT positions), support primary tubes and sample cup
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	2-35 μL, variable in 0.25 μL

Reagent System

Reagent Disk	48 positions with 20mL size bottle
Cooling System	2-15℃ 24 hours non-stop cooling system
Washing System	Warm water washing for both inner and outer of the probe
Reagent Probe	Inner & outer high polished probe with low carry over Reagent volume tracking function during aspiration
Reagent Volume	20-400 μL, variable in 0.25 μL

Optical System

Light Source	Long life halogen lamp 12V/20W
Optical System	High resolution filters with 12 wavelengths 340nm, 380nm, 405nm, 450nm 505nm, 546nm, 570nm, 605nm 660nm, 700nm, 750nm, 800nm

Reaction System

Reaction Cuvette	48 high permeable UV cuvettes Hard glass cuvette optional
Washing System	4-probe washing with detergent Extra cleaning optional for specific test items
Reaction Volume	Minimum 100μL
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 10
Testing Sequence	Programmable test sequence Maximize test speed and minimize carryover
Advanced Features	Reaction reading points traceable after test cycle finish
Incubation System	Exceed linearity and high concentration sample auto-dilution Real-time monitoring reaction process
LIS Protocol	Bi-directional LIS/HIS
Report	Various editable customized formats
Data Storage	Depend on PC host memory capacity

Others

Dimension	600mm(L) × 380mm(W) × 510mm(H)
Weight	40kg
Water Consumption	≤4.5 L/H during operation

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URIT *Since 1984*
AI ways Beyond Urinalysis...

CA-150

Automatic Chemistry Analyzer

Constant 150 T/H
Mini Bench-top Compact Design
Tailor-made User-friendly Interface
High System Reliability
Minimal Intervention Demands



Guilin, China

CA–150 Automatic Chemistry Analyzer



- 16 sample positions, 48 reagent positions and 48 reaction cuvettes
- Air bath heating incubation system
- Stable 2~15℃ refrigeration temperature for reagent disk
- High accuracy filters optical system
- Collision protection for probes and washing arm
- User-friendly software, easy operation
- Bi-directional LIS/HIS

Minimize Operation Time

- Real-time monitor temperature, distilled water and waste liquid
- One-key pause function to realize adding sample or reagent real-time
- Optional internal sample & reagent bar code reader

Increase Productivity

- 48 reaction cuvettes
- 45 on-board parameters

Ensure Accurate Results

- 37 ± 0. 1°C reaction incubation by air bath heating system
- 2~15°C, 24 hours non-stop sample and reagent cooling system
- 0.25 μL variable sampling accuracy
- 12 wavelengths and free maintenance high resolution filters optical system



Real–time Workflow Follow Up

- Multiple alarms, auto-retest and auto-dilution functions for over linearity and substrate exhausted samples
- Reaction curve saved for every test
- Calculated results available

Minimal Intervention Demands

- Auto clean cuvettes before & after testing
- Auto lamp sleep function to extend life span
- Auto backup for all software data
- Auto exhausting pipeline air bubbles

Original URIT Reagent

- Ready to use
- Liquid formulation packaged in bar coded catridges for on-board use
- Reagent capable of multi-position usage for high testing demand
- Traceable QC and standard materials