

# URIT-8021A

Automatic Chemistry Analyzer

Global Diagnostics Supplier

## | Specifications |

**Assay methods:** End Point, Kinetic, Fix time etc.

**Principle:** Photoelectric colorimetry

**Light Source:** Halogen lamp 12V/20W

**Photometry range:** 0~3.2Abs

**Resolution:** 0.0001Abs

**Wavelength:** 340nm\405nm\450nm\492nm\510nm\546nm\578nm\630nm\700nm\800nm

**Throughput:** 200 tests/hour

**Reagent tray:** 60 reagent positions (include 1 detergent position, 1 dilution position)

**Sample tray:** 45 sample positions, including detergent, standard, QC, STAT positions

**Reaction tray:** 120 reaction cuvettes

**Sample volume:** 2~100ul, with 0.1ul increment

**Reagent volume:** R1:10~500uL, R2: 10~500uL, with 0.5uL increment

**Minimum reaction volume:** 180uL

**Maximum reaction time:** 10 minutes

**Water Consumption:** 5L/hour under working status

**Clean unit:** 8-step auto-washing system with detergent

**Calibration:** Calibration reset, select best test point by reaction curve, no need second calibration  
Line/non-line; multi-standards assay

**Control rules:** Westgard multi-rule, Cumulative sum check, Twin plot  
3 level controls for each ifem, analyzing and printing QC analysis diagram

**Temperature control:** incubator  $37 \pm 0.1^\circ\text{C}$

**Power supply:** AC 230(1 $\pm$ 10%)V, 50/60Hz, 500VA

**Ambient:** Operating temperature: 10~30 $^\circ\text{C}$

Relative humidity:  $\leq 85\%$

Atmospheric pressure: 86~106kPa

## | Features |

- 24 hour non-stop cooling system to ensure reagent at 2~8 $^\circ\text{C}$
- Durable ceramic syringes to ensure accuracy & precision
- High accurate optical system
- Collision protection in both vertical and horizontal directions, stop & alarm automatically once touching barrier, not affect former tests
- Automatic eligible cuvettes detection & selection
- Select best test point by reaction curve, create new factor automatically
- Support LIS interface



## URIT-8021A Automatic Chemistry Analyzer

- Random access, 200 tests per hour
- Durable ceramic syringes
- Select best test point by reaction curve, create new factor automatically
- Support bi-direction LIS and HIS interface

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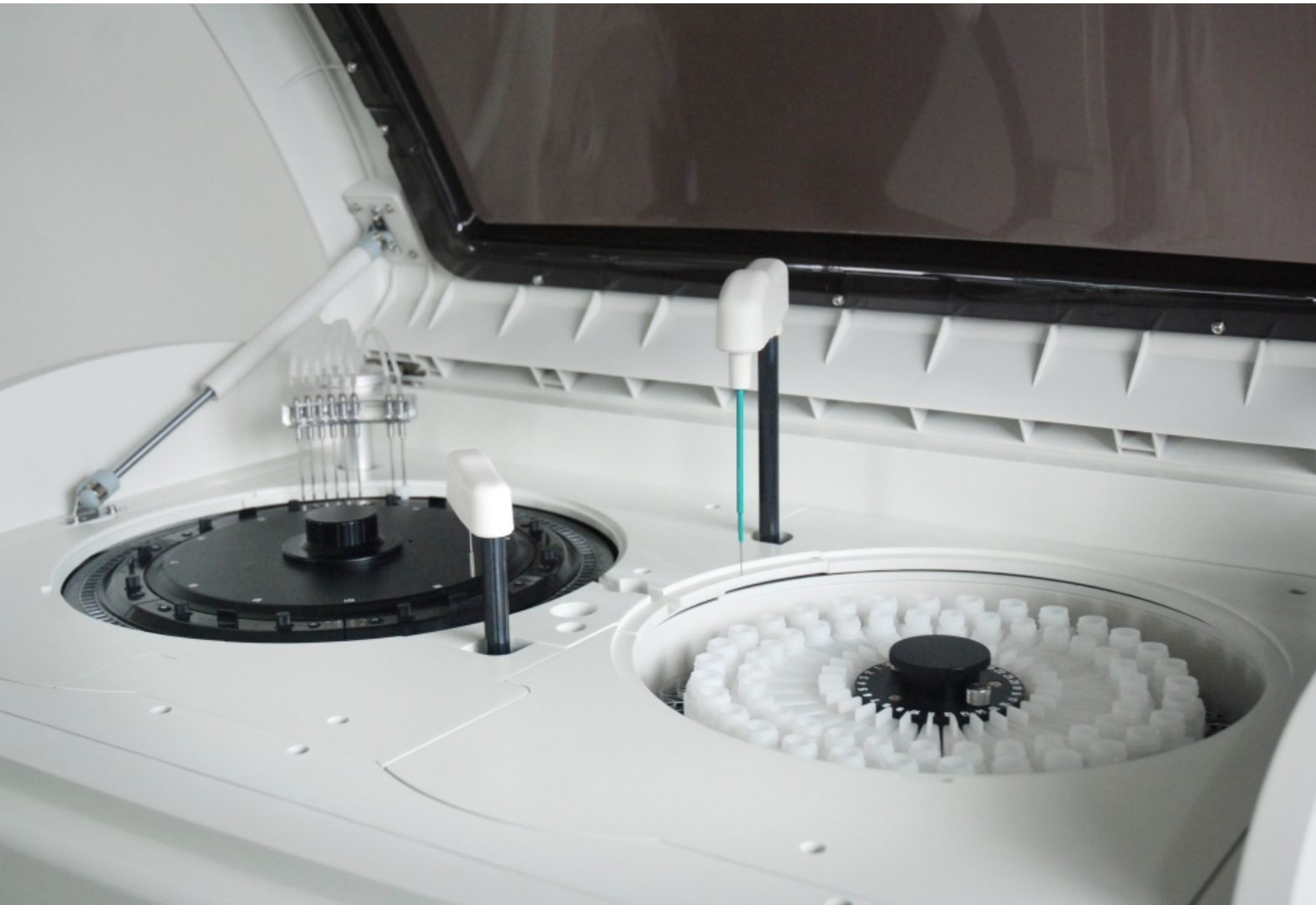
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# URIT

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## Automatic Chemistry Analyzer

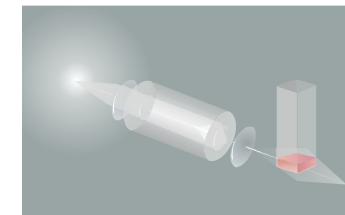


### High performance mixer design



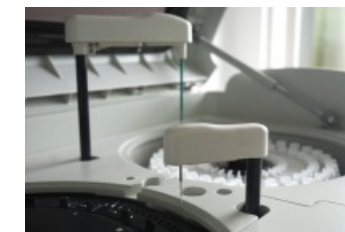
- ▣ Absence of cross contamination
- ▣ Optimal homogenization in minimum time
- ▣ Mixing immediately after dispensing of sample and the second reagent

### Stable Optical System



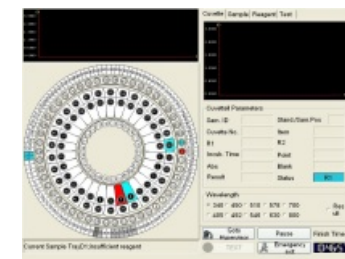
- ▣ High accurate, close, static state optical system
- ▣ Spot photometry with high speed digital transmission system
- ▣ Durable cuvettes
- ▣ 8-step auto-washing system with detergent and deion-water to ensure cuvettes clean and decrease cross contamination
- ▣ 120 reaction cuvettes located in a constant temperature incubator
- ▣ Low consumption, open reagent design

### Multi-function sample/reagent tray



- ▣ 60 reagent positions, support 25mL, 50 mL reagent bottle type.
- ▣ 45 sample positions including routine, stat, control and standard
- ▣ Various primary tubes and special cups can be used
- ▣ Up to 20 virtual sample tray can be programmed
- ▣ 24 hours nonstop cooling system with peltier element

### Dynamic and real time display of running status



- ▣ Running status of reagent tray, sample tray and reaction tray
- ▣ Real time monitoring of reagent residual volume
- ▣ Intelligent carry over setting to adjust test sequence, STAT test priority
- ▣ Probe depth adjustment automatically
- ▣ Real time monitoring of reaction curve
- ▣ Real time diagnosis of system working status

### Accurate Sampling ( Sample/Reagent ) System

- ▣ Collision protection
- ▣ Liquid level detection
- ▣ Internal and external probe washing
- ▣ Probe depth adjustment automatically

