

iChem²⁰⁰



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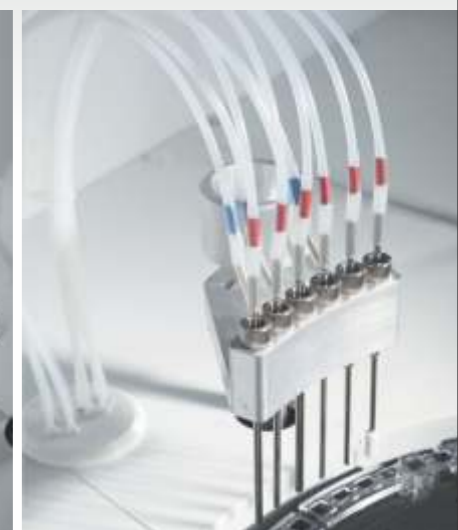
System Function

Fully automated, Discrete, Random access for routine, STAT, Urine and homogeneous immuno assays; STAT sample priority

Throughput Up to 225 tests per hour (without ISE)

Test principle Colorimetry, Turbidimetry

Methodology End-point, Kinetics, Fixed-time, etc.
Support single/dual wavelength and 1-2 multiple reagent item, linear and non-linear calibration



Features

- Fully automated, discrete, random access
- Up to 225 tests per hour
- On-board laundry with 6-step washing function
- Water consumption : Less than 5.0 L/H
- 40 positions for samples and reagents respectively, 24-hour non-stop cooling
- Optional barcode reader and ISE
- Airtight Static Matrix Optical System (ASMOS), rear spectrophotometry with synchronized double and single wavelength testing
- Highly polished sample probe, with liquid level detection, automatic probe depth adjustment and collision protection
- Alkaline solution washing to prevent carryover
- Independent mixer, rinsed in vertical style
- 81 special ultraviolet transmitting plastic cuvettes or quartz cuvettes
- Windows based operating system

Sample / Reagent System

| | |
|----------------------|---|
| Sample/Reagent tray | 40 positions for sample and reagent respectively in refrigerated compartment (4~12°C) |
| Sample volume | 2 - 50 µL with increments of 0.1 µL |
| Reagent volume | R1: 150 µL - 500 µL R2: 20 µL - 350 µL |
| Sample/Reagent probe | Liquid level detection, automatic probe depth adjustment and collision protection |
| Sample tube | Compatible with blood collection tube, minimal tube, sample cup, etc. |
| Reagent bottle | Compatible with various sizes of reagent bottles |

Reaction System

| | |
|-----------------|---|
| Cuvette | Special ultraviolet transmitting plastic cuvette and optical length of 5mm |
| Reaction volume | 150 µL ~ 500 µL |
| Heating | Fully sealed constant temperature, heated by solid substance, fast and steady |
| Reaction temp. | 37 ± 0.1° C |
| Mixing system | Independent mixing probe |
| Cleaning system | On-board laundry with 6-step washing function |

Optical System

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|--------------------|---|
| Light source | 20W/12V halogen lamp with lifetime of more than 2000 hours |
| Photometric method | Rear spectrophotometry by filter technology, fully sealed, free from mildew |
| Wavelength | 8 wavelengths: 340,405,450,510,546,578,630 and 670nm, supports single / dual wavelength |
| Absorbance range | 0~4.00Abs |

Calibration & Control

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|------------------|---|
| Calibration mode | Linear, Logit-log 4P, Logit-log 5P, Spline, Exponential, Polynomial |
| Control rule | Westgard multi-rule, Cumulative sum check, Twin plot |

Operation Unit

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|------------------|--------------------------------|
| Operation system | Windows based operating system |
| Interface | RS-232 |

Others

| | |
|--------------|----------------|
| Power supply | AC100 ~ 240V |
| Power | 350VA |
| Dimension | 855X640X560 mm |
| Net Weight | 100Kg |

