

SMART -120

FULLY AUTOMATIC CHEMISTRY ANALYZER



- Constant 120 test/ hour with double reagent.
- 80 reagent positions.
- 50 disposable cuvettes
- Integrated full closed optical system.
- Multi wavelength simultaneous detection .
- Friendly surface and easy to operation.
- New amorphous optical plastics reaction cups.
- Maintenance free refrigeration.

Multifunctional sampling probe

- External & internal mirror polish, external & internal probe washing
- Dedicated sampling probe equipped with sensitive liquid sensor.
- Automatic probe depth adjusting

mixer design

- Teflon coating mixer. No water dropping (reducing carry-over)
- Excellent mixing effect with standard mixing procedure

High precision ceramic syringe

- Permanent ceramic piston
- Accurate dispensing even low as 0.1 μ l

Reagent & sample

- 80 reagent positions (40 for R1 & R2)
- 40 sample positions, either micro cup or test tube can be used
- Non-stop cooling system ,24 hours 2°C-14°C
- Bar code reader(optional)

Reaction tray

- 50 disposable cuvettes
- Reaction volume as low as 150 μ l
- Stable & accurate temperature(37 \pm 0.1 °C) for reaction



SMART-120

| Device information | | Sample information | |
|--------------------|--|--------------------|--|
| Machine type | Random access, open reagent & locked reagent (optional) | Sample position | 40 positions |
| Test speed | Constant 120 tests/hour (Mono reagent or double reagent) | Sample tube | Micro cup & test tube & blood collection tube can be used. |
| Test principle | Colorimetric method, turbidimetry | Sample volume | 2-30µL, step by 0.1µL |
| Test method | 1 point end, 2 point end, Fixed-Time, Kinetics | Sample probe | Liquid surface detection, timely tracking for liquid volume. |
| Calibration | Linear & nonlinear | Sample barcode | Option |

| Reagent information | | Reaction information | |
|---------------------|--|----------------------|---|
| Reagent position | 80 reagent positions (40 for RI & 40 for R2), Non-stop | Reaction position | 50 disposable cuvettes |
| cooling system | cooling system with peltier pad inside, 24 hours 2°C-14°C, | Reaction time | 10 minutes |
| Reagent volume | 20-300µL, step by 1µL | Reaction volume | 150µL-330µL |
| Reagent needle | Liquid surface detection, timely tracking for liquid volume. | Temperature | Peltier pad incubation system, reaction temperature (37°C ± 0.1 °C) |
| Reagent barcode | Option | Sample barcode | Option |

| Optical information | | Working information | |
|---------------------|---|---------------------|-----------------------------------|
| Light source | Halogen lamp | Power supply | AC 110/220V ± 10%, 50/60 Hz, 650W |
| Wavelength | 340nm; 405nm; 450nm; 505nm; 546nm; 578nm; 630nm; 700nm(4 more options) | Water consumption | 5.8L/hour Max. |
| Absorbance range | 0-4.0 Abs | Dimension | 76cm x 55cm x 48cm (L *W*H) |
| Resolution | 0.0001 Abs | Weight | 70kg |
| Data processing | Automatic calibration, test combination, effective time management of reagents, serum index, whole process detection, linear expansion of enzyme, blank deduction, dirty cuvette memory, cross infection prevention, patient information memory and association input, automatic report audit, data fuzzy query, report statistics and printing, reference range grading, alarm information classification, user operation privilege. | | |



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