

# 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  $\mu$ 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  $\mu$ 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	2-30 $\mu$ L, step by 0.1 $\mu$ L
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 R1 & 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	20-300 $\mu$ l, step by 1 $\mu$ L	Reaction volume	150 $\mu$ l-330 $\mu$ L
Reagent needle	Liquid surface detection, timely tracking for liquid volume.	Temperature	Peltier pad incubation system, reaction temperature (37°C $\pm$ 0.1 °C)
Reagent barcode	Option	Sample barcode	Option

Optical information		Working information	
Light source	Halogen lamp	Power supply	AC 110/220V $\pm$ 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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