

# Sys 1300

Technical Specifications	
System Type	Random access,fully automatic,discrete, STAT priority
Throughput	Constant speed 900T/H for colorimetic test, 1300T/H for ISE
Light Source	Long life halogen lamp
Wavelength	340-800nm, 12 wavelengths
Analysis Method	End-point, kinetics, fixed-time, etc.
Calibration Method	1 point method, 2 point method,multiple point linear method,non-linear method
Probe	Independent sample probes, reagent probes,automatic liquid level detection, probe liquid level tracing and clot detection function
Rinsing Mechanism	Probe inner wall high pressure rinsing
Mixing Mechanism	2 independent mixers ensure sufficient reaction
Reaction Cuvette	160 new type reaction cuvettes
Temperature Control	The temperature of reaction disk incubation bath is 37°C±0.1°C
Sample Tube	140 sample positions, supporting multiple tubes and sample cups
Reagent Position	2 compartments, 132 reagent positions totally, with continuous refrigeration; supporting 4 kinds of reagent test
Sample Volume	1.5 µL-35µL, 0.1µL increment
Reagent Volume	15 µL-350µL, 1µL increment
Reaction Volume	Minimum reaction volume 100µL-450µL

Handed over by:



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CHOOSING QUALITY.

# Sys 1300

The Next Step in Clinical Chemistry Evolution



Efficiency. Power. Flexibility.  
 Small in Size – Big in Performance.



CHOOSING QUALITY.

DiaSys India has established itself as major clinical chemistry solution provider in India.

Our product portfolio comprises more than 90 clinical chemistry and immunoturbidimetry reagents for routine and special diagnostics including suitable calibrators and controls.

DiaSys is one of the very few companies to offer Procalcitonin and Vitamin D clinical chemistry platforms



# Sys 1300



## Advanced Photometry System

### Holographic concave flat field grating, rear spectrophotometry

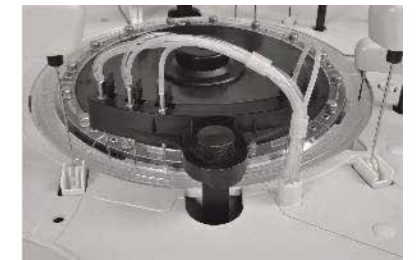
- Cluster-condensing light(point light source) technology to realize microvolume analysis, less reagent consumption
- Light source with best position design, no signal attenuation, strong anti-interference



## Stable Temperature Control System

### Constant Temperature Device of Reaction Cuvette

- Recycling water of constant temperature, automatically changing water and adding defoamer. Reaction cuvettes are immersed into warm water which heats the cuvettes evenly and reduces ambient temperature influence, no need of reagent pre-heating
- PIO thermostat technology ensures 37°C,  $\pm 0.1^\circ\text{C}$  variation of temperature control



## Accurate Sample/Reagent Pipetting Mechanism

- Polished probes with nano processing technology, reducing the cross-contamination effectively
- Intelligent clog and clot detection: detecting the status of probe clog and the existence of clot
- High pressure rinsing function, enhancing pipetting volume accuracy. High pressure rinsing for inner wall of 3 probes, water fall rinsing for outer wall
- Water degassing technology: The analyzer has special degassing device to remove the air dissolved in the tube system, which ensures quick, accurate and microvolume pipetting.



## High-Efficient Rinsing System

### A. Automatic Cuvette Rinsing

- 8 stops 12 steps rinsing by warm water ensures complete cleaning

### B. Inner Wall Rinsing of probe

- Draining liquid by vacuum, detergent and warm water high pressure rinsing
- Carryover contamination rate 0.1%, ensures best cleaning status



# Sys 1300

## Calibration and QC Function

- Linear and non linear calibration; With manual and automatic calibration function available to select
- With calibration tracing function; Change-trend chart of K value helps to reduce system error
- Monthly QC ensure that the instrument is working all the best analysts condition
- QC chart: depict and print the relevant I.L. chart, Cumulative automatically
- Out of control reason and original record function, which complies with the lab QC management

## Operating Software

- Easy software operation, advanced function, consistent with the use requirement of clinical test
- Multiple self-monitoring functions ensure the intelligentize of analysis process
- Simple patient information will be memorized by the software automatically and input automatically, all the things will be completed by one button
- Multiple report formats, user define modification is supported

## Monitoring and Calibration Function

- Linear limit over, reference limit over, substrate depletion, antigen surplus, no reaction equilibrium point checking function
- Serum checking function avoids interference from hemolytic, lipemic, icteric reagent



## Barcode Scanning

- Dedicated SYS reagents to avoid the human errors. Fast and accurate.
- Automatic reagent barcode scanning, accurate, fast reagent information acquisition



## ISE Module(Optional)

- Indirect simultaneous measurement of  $K^+$ ,  $Na^+$ ,  $Cl^-$
- Throughput of 450 T/H



## User-friendly Design

### Reagent Disks:

- Newly designed slope angle of reagent disk; Large capacity of reagent positions
- Two disks allow 132 items to be tested at most
- Flexible Sample Positions: sample cups and original tubes with the diameter of 12-16mm are available