

Sys 400

High-performance, STAT Prioritized
Fully Automated Clinical Chemistry Analyzer



Quality You Can Trust

DiaSys

Diagnostic Systems

CHOOSING QUALITY

Sys 400

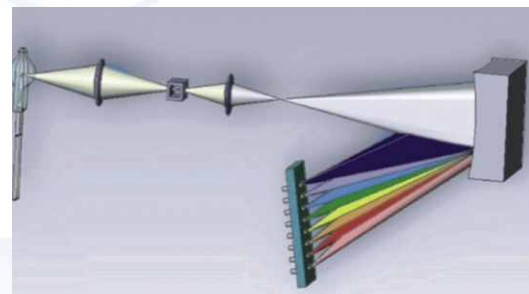


Features

- Constant throughput of 400 photometry tests per hour
- Rear Spectrophotometry Grating with Cluster- Optical Path, realizing Supermicro Volume detection of reaction Solution
- 3- Polished probe (60 nm), liquid level detection, Clot Detection & collision protection
- Cuvette auto rinsing and blank cuvette detection
- Sample rerun and dilution function
- User defined input of patient information & graphical software

Photometry System

- Monochromator with Holographic Conclave Flat Field Grating, Rear Spectrophotometric 12 ways parallel measuring technology, reduces ambient light interference to get accurate result
- Cluster-condensing light technology to reach Super-Micro Analysis
- 12 wavelength photodiode array detector, 12 ways high dynamic range amplifier (6 Abs without distortion)



Sample Disk

- Composed of outer track (50 pos), middle track (40 pos), and inner track (25 pos) and lamp
- Outer track: For routine samples
- Middle track: For Calibrator, STAT sample, Detergent
- Inner track: Cooling available for calibrators & controls. Can be restored in 5°~15°



Reagent Disks

- Large volume refrigerated double reagent disks
- Continuous cooling secures reagent quality
- 90 positions: 88 reagents + 2 detergents
- Up to 4 reagents testing (R1, R2, R3, R4)

Reaction Cuvette Rotor

- Reaction Cuvette Rotor consists of 6 segments of 20 reusable cuvettes. Total of 120 Cuvettes
- Constant temperature maintained by using recycling water const. temp. device which automatically changes water
- Reaction Cuvette emerged in warm water heating up the cup evenly and reduces ambient temperature influence
- PID thermostat technology ensures 37°C with variation of $\pm 0.1^\circ\text{C}$



Sample/ Reagent Pipetting System

- 3 individual probes polished with nano processing technology
- 1 for sample
- 2 for Reagents
- Automatic Liquid Level Detection
- Clot Detection
- 3 individual syringes for 3 probes
- Self resetting and collision protection function
- Probe washing: High pressure rinsing for internal walls, stream washing for external walls



Double Stirrer Mechanism

- 2 stand alone Stirrers stirring immediately after adding reagent to mix the reaction solution well
- Teflon coated stirrer
- Flat paddle design along with swirl rinsing

Operating Software

- Graphical operating software, simple interface & user friendly
- Real time online help system
- Multiple self monitoring functions
- Multiple report formats, user defined, automatic print function

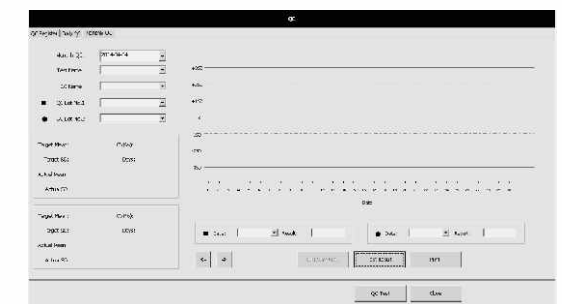
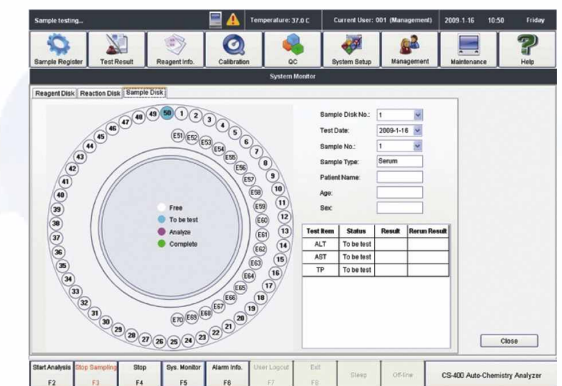


In Built Laundry System

- 7 stage, 11 steps washing laundry system with washing by warm water to ensure complete cleanliness

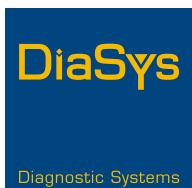
Calibration & QC Function

- Linear & Non Linear Calibration, can be set with time, reagent lot number etc. with flexible calibration methods
- 9 types of calibration curves to satisfy different analysis demands
- Each items can use 6 different levels of calibrators
- Calibration tracing function, K value variation trends help to reduce system error
- QC interval & monthly QC ensure best analysis condition of instrument
- QC rule: Default as Westgard rules
- QC plot- L-J, Cumulative, Twin Plot



Sys 400 Technical specifications

Basic Properties	Wavelengths	Rear spectrophotometry system with holographic concave flat-grating, 12 wavelengths can be collected and measured simultaneously Wavelengths: 340 nm, 380 nm, 405 nm, 450 nm, 480 nm, 505 nm, 546 nm, 570 nm, 600 nm, 660 nm, 700 nm, 800 nm
	Wavelength Precision	± 2 nm
	Reaction Temp	37°C
	Test Items	88 colorimetric items at most
	Test Methods	1-point end assay, 2-point end assay, 2-point rate assay, rate-A assay
	Speed	Constant rate 400 tesps /hr
Reagent System	Reagent Disk, Position	Two reagent disk with refrigeration function, 45 x 2 reagent pos
	Reagent Vol.	15µL~350µL, 0.5µL, increase in steps of ± 0.5
	Reagent Bottle Vol.	20mL, 70mL
	Reagent Storage Temp.	5°C~15°C
	Reagent Level Sensor	Digital level sensor, volume tracing, probe-blocking detection, probe Collision-proof
Sample System	Sample Disk, Positions	115 sample pos (50 routine pos, 34 calibrator pos, 20 stat pos, 8 control pos, 3 detergent pos) Out of this, 8 control pos. and 17 Calibrator pos. has refrigeration function
	Sample Types	Blood, Urine, Gastric juice, CSF, Ascites
	Sample Barcode Reading System	3 built-in barcode readers (for routine sample, reagent 1 and reagent 2)
	Sample Vol.	1.5µL~35µL, increase in steps of ± 0.05
	Liquid Level Sensor	Digital level sensor, volume tracing, probe-blocking detection, probe Collision-proof
Data System	Interface	RS 232
	LIS/HIS Connection	Can be connected
Analysis System	Cuvette Type	Discrete
	Cuvette Optical Diameter	6 mm
	Reaction Positions	6 sets, 20 pos /set, 120 in total
	Reaction Solution Volume	150µL~450µL
	Light Source	20W/12V long-service-life quartz halogen lamp
	Absorbance Range	0 Abs~3.3 Abs
	QC	Linear and non-linear calibration, auto-calibration and manual Calibration Real-time QC, daily QC, day-to-day QC with double-concentration method
	Auto Rinse	Cuvettes auto-rinsing
	Mix System	2 separate mixers, mixing after reagent dispensing
Overall System	Weight	approx. 230 kg
	Dimensions (mm)	1060 x 790 x 1150 (L x W x H)
	Power Consumption	2000 VA



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