CS-I300B

Auto-Chemistry Analyzer



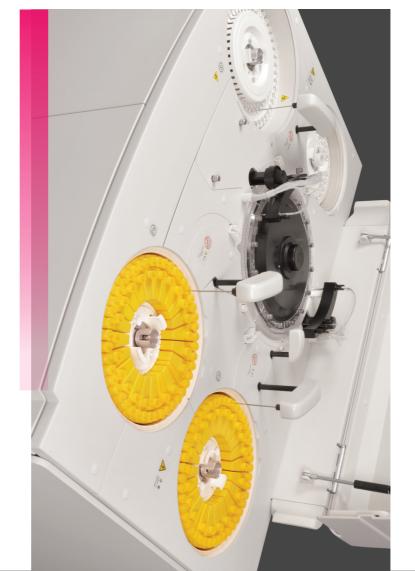
| Specification | |
|---------------------|--|
| System Type | Random access, fully automatic, discrete, STAT priority |
| Throughput | Constant speed 900T/H for colorimetic test, 450T/H for ISE |
| Light Source | Long life halogen lamp |
| Wavelength | 340~800nm, 12 wavelengths |
| Analysis Method | 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 $37^{\circ}\text{C} \pm 0.1^{\circ}\text{C}$ |
| 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 ul~35ul, 0.1ul increment |
| Reagent Volume | 15 ul~350ul, 1ul increment |
| Reaction Volume | Minimum reaction volume 120 μΙ~450μΙ |
| | |

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Specifications subject to change without notice. 20130423





CS-I300B

Auto-Chemistry Analyzer





The Next Step in Clinical Chemistry Evolution

DIRUI CS series auto-chemistry Analyzers

have been installed in over 30 countries world wide.

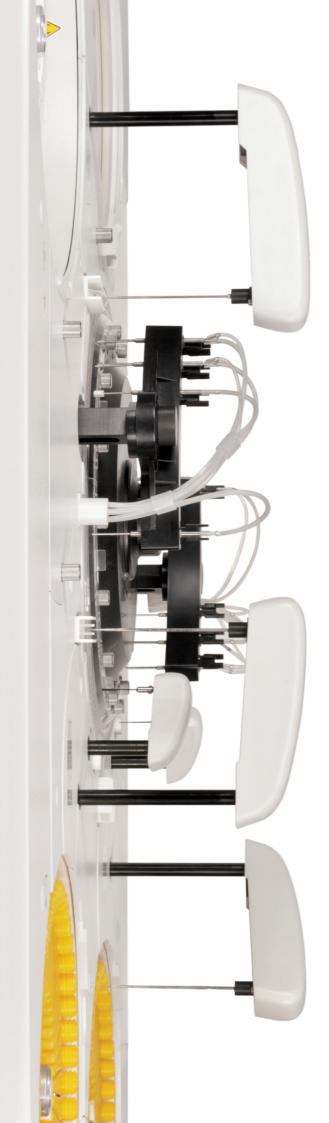
Through our dedication to quality manufacturing and world class customer service, Dirui has established

clinical chemistry analyzer manufacturers.

itself as one of the world's foremost

CS-1300B

Auto-Chemistry Analyzer



CS-1300B

Auto-Chemistry Analyzer



Advanced Photometry System

Holographic concave flat field grating, rear spectrophotometry

- Cluster-condensing light(point light source) technology to realize microvolume analysis, less reagent consumption
- Long life light source adopts circulating water cooling method
- Light source with best position design, no signal attenuation
- strong anti-interference
- Anti-ambient light interference to get accurate result



Stable Temperature Control System

Advanced postposition semi-conductor helps direct heat releasing, water cooling to ensure stable temperature and easy

B. 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
- PID thermostat technology ensures 37 $^{\circ}\text{C}, \pm 0.1 ^{\circ}\text{C}$ variation of

Accurate Sample/Reagent Pipetting Mechanism

Probe:

- Polished probes with nano processing technology, reducing the cross-contamination effectively
- Automatic liquid level detection: the probes automatically detect the liquid level and stop descending ensuring the probes enter into liquid at perfect depth and reducing liquid suspension
- Collision detection function, self-resetting, automatic sample and reagent pipetting
- 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

Syringe:

- Long life high-precision ceramic piston ensures high precision of sampling, low maintenance cost
- 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.
 The analyzer senses the remaining volume of samples and reagent and the number of test items automatically and alarms when the samples and reagent are not enough to ensure continuous analysis.

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 vacaum, detergent and warm water high pressure rinsing Carryover contamination rate $\leqslant\!0.1\%$, ensures best cleaning status







CS-I300B

Auto-Chemistry Analyzer

Calibration and QC Function

- calibration function availabe to select Linear and non linear calibration; With manual and auomatic
- 9 types of calibration curve fitting formulas to satisfy different item analysis requirement
- With calibration tracing function; Change-trend chart of K value Each item can use 6 different levels' calibrator at most helps to reduce system error
- Monthly QC ensure that the instrument is working at the best analysis condition
- QC rule: default as Westgard multi rules
- QC chart: depict and print the relevant L-J chart, Cumulative
- Out of control reason and original record function, which complies with the lab QC management

Operating Software

- English version graphical operating software, user friendly operation interface
 Real-time online help system, reduces downtime
- Easy software operation, advanced function, consistent with the
- Multiple self-monitoring functions ensure the intelligentialize of use requirement of clinical test
- Data dictionary and information input, which is convenient and analysis process
- efficient
- Multiple data query, statistic and report printing function Same 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 equibrum point checking function Serum checking function avoids interference from hemolytic, lipemic, icteric reagent
- Instrument analysis alarm hierarchical handling to arrange the job sequence by priorities different reagents, samples and reaction cuvettes Against cross-contamination program, avoid interference from
- User permission hierarchical management to enhance system











DIELIES 1800

Barcode Scanning

- Automatic routine sample barcode scanning, accurate sample information recognization
- Automatic reagent barcode scanning, accurate, fast reagent information acquisition

ISE Module(Optional)

- Indirect simultaneous measurement of K*, Na*, CI
- Throughput of 450 T/H
- Long life electrodes

User-friendly Design

Reagent Disks

- Newly designed slope angle of reagent disk; Large capacity of reagent postions
- 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 avaliable

Advanced Analysis System

High precision instrument, high quality reagents, Control and analysis system Calibrator with complete tracebility system contribute to advanced





