



**AC**

## Automatic chemistry analyzer



### India Office

16 S/F B/S, T-Block Extn.  
Jain Colony Part-2 Uttam Nagar,  
New Delhi-110059  
[info@darsunscientific.in](mailto:info@darsunscientific.in)  
(+91) 9999136670, 7835864003

### USA Headquarters

30 N Gould St, Ste R  
Sheridan, Wyoming 82801  
United States

**Darsun**Scientific

## Reaction System

- Reaction Cuvette: 60 reusable plastic units
- Optical Length of Cuvette: 6mm
- Reaction Volume: 180–400µl
- Max reaction Time: 10 minutes
- Reaction Temperature: 37±0.1°C

## Optical System

- Light Source: halogen-tungsten lamp
- Wavelength: 340–690nm, 9 wavelengths, precision ±1.5nm
- Absorbance Range: 0–5.0 Abs
- Resolution: 0.0001 Abs
- Rear spectrophotometry

## Calibration

- Calibration: linear/nonlinear multi-points calibration
- Re-test: retest the sample automatically when the result is out of the linearity range or the sample is not sufficient

## Working condition

- Power Supply: -100–240V, 50/60Hz, 300VA
- Temperature: 10–35°C
- Humidity: 90%, no dew

## Operation System

- Windows 10 or Windows 7

## Input and Output

- Input: RS-232 interface/computer
- Output: multi-format printout

## A revolutionary automatic chemistry analyzer with

- Compact design: 54.8cmX42.2cmX38.3cm
- Easy to carry: net weight 23kg

## System Functions

- Analysis Methods: end-point, kinetic, two-point, double-reagent, double-wavelength, multi-standard etc, open to various reagents

# Darsun scientific

## Automatic chemistry analyzer

### DS200



## Optimal substitution of semi-auto chemistry analyzer

- Minimal labor required
- Independent mixing probe
- Utility of reagents decreased: 300µl/test
- Efficiency speed: 200 tests/hour
- User friendly: Smart and easy-operating software
- High Accuracy: Minimal operating/random errors
- High reputation from clinics

## Sample/Reagents Handling

- Sample volume: 1.6–50µl, 0.1µl step
- Sample Dilution: automatic/Manual pre-dilution, with
- dilution ratio up to 1:100
- Reagent Position: 40 pcs
- Reagent Volume: 10–500µl, 0.5µl step

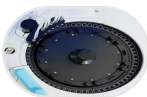
## Sample/Reagent Position

- 40pcs sample position
- Reagent refrigerated function
- 40pcs reagent position



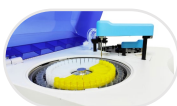
## Reaction Cuvettes

- 60 pcs reusable plastic cuvettes
- Automatic blank testing for cuvette
- Colorimetry system in the pattern of light splitting behind cuvette
- Dismountable, easily replacement



## Sample/Reagent/Mixing Probe

- Automatic liquid level detect
- Collision protection function
- Probe internal/external washing
- Independent mixing probe



## 7-Step Auto Cleaning System

- Automatic 7-step washing
- Hi-tech washing station to ensure accurate results
- With low water consumption: 1-2L/H



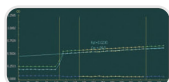
## Intellective software

- Automatic washing cuvette when startup & shut down
- Automatic detect reagent volume during every startup
- Reagent plate temperature detecting when startup



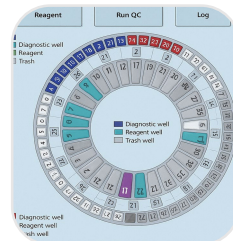
## Optimum calibration cuvette

- Automatic Cuvette blank testing
- Automatic wash selected cuvettes



## Dynamic and Real-time display of running status

- Real-time online monitoring running status of sample tray, reagent tray and cuvette
- Real-time online monitoring reagents residual volume
- Real-time online monitoring waste volume



## Automatic dilute and re-test

- Automatic dilute and re-test when absorbance range is out of range
- Automatic dilute and re-test when linear limit is out of range
- Automatic dilute and re-test when linear range is out of range
- Freely set the auto dilute ratio and dilute water position

