



Fluorometer



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DarsunScientific

A close-up photograph of the Darsun Scientific DS-100 Fluorometer. The device is white with a red 'DARSUN SCIENTIFIC' logo on the top left. The front panel features a blue touchscreen display showing various data and a numeric keypad below it. A small 'Come' label is visible on the left side of the keypad area.

Darsun Scientific

Fluorometer

DS-100



- 7-inch color touch screen, easy to operate
- Only 3s to detect the sample concentration
- The minimum detection concentration can be 0.5pg/µL
- Dual channels for detecting two kinds of fluorescence simultaneously
- The response range can reach 5 orders of magnitude
- It works for most reagents
- Store up to 10000 pieces of data, which can be exported through U disk or printer

Introduction

Fluorescent Immunoassay technology has strong specificity, high sensitivity and good practicability, which is widely used to measure nucleic acids (dsDNA, Oligo, RNA), proteins (enzymes, receptors, antibodies), hormones, drugs and microorganisms and other low concentration bioactive compounds. DS-100 fluorometer is based on fluorescence immunoassay technology and the principle that the fluorescence intensity is proportional to the concentration at low concentrations, and to analyze samples qualitatively and quantitatively by detecting fluorescence intensity

Model	DS-100
Sample Capacity	1
Sample Volume	1-20 µL
Tube Type	0.5 mL PCR tube
Channel Number	2
Measurement Time	3 s
Repeatability	< 1.5%
Calibration Method	2 or 3 point calibration
Response Range	Five orders of magnitude
Linearity	$R^2 \geq 0.995$
Excitation Wavelength	470/625 nm (standard), 365/525 nm (optional)
Emission Wavelength	525/690 nm (standard), 460/620 nm (optional)
Concentration Range	dsDNA HS: 0.005 ng/µL - 120 ng/µL; dsDNA BR: 0.2 ng/µL - 2000 ng/µL; Oligo: 0.01 ng/µL - 240 ng/µL; RNA: 0.2 ng/µL - 200 ng/µL; MicroRNA: 0.025 ng/µL - 150 ng/µL; Protein: 12.5 µg/mL - 5 mg/mL; Protein BR: 0.1 mg/mL - 20 mg/mL
Sensitivity	0.5 pg/µL dsDNA
Light Source	Monochrome LED
Detector	Photodiode
Display	Touch screen display
Programs Stored	10,000
Data Export	U Disk
Data Format	CSV, PDF
Data Interface	USB (Type A)*2, USB (Type B)*1
Power Adapter	100-240V @ 50-60 Hz
Voltage	DC12V 2A
Net Weight	1.0 kg
Power	4.5 W