



96DSE/96DSR

Real-Time PCR System

Darsun Scientific



Real-Time PCR System

The 96DSE/96DSR Real-Time PCR System is designed to meet the experimental needs of high-end laboratories. With the 6 (96DSE)/4 (96DSR) fluorescence channels, 96DSE/96DSR can process 96 samples in one run. With the powerful and efficient temperature control system, easy-to-use software, user-friendly operational designs, 96E/96R can provide maximal reliability and efficiency for all your real-time PCR needs.



FEATURES

96 samples to be scanned in 1s Only 7s for all 96 wells of fluorescence scanning can significantly reduce testing time and improve efficiency for lab professionals.

Efficient temperature control Based on the Peltier heating/colling method, the maximum heating ramp rate is $\geq 6.1^{\circ}\text{C/s}$ and the maximum cooling ramp rate is $\geq 5.0^{\circ}\text{C/s}$.

Power failure protection design Power failure protection design can recover the experiment automatically, with no more concern about instantaneous power failure.

More convenient with two configurations Standalone configuration: 10.4-inch touch screen, PC control configuration: PC software control via connection

Powerful software analysis Gentier 96 E/R offers various data analysis functions, including absolute quantitative analysis, relative quantitative analysis, SNP analysis, melting curve analysis, etc.

Model	Throughput	Gradient	Channel1	Channel2	Channel3	Channel4	Channel5	Channel6
			FAM, SYBRGreenI, SYTO9, Eva Green, LC Green	HEX, VIC, TET, JOE	ROX, Texas Red	Cy5	Alexa Fluor 680	FRET
96DSE	1-96	Yes	✓	✓	✓	✓	✓	✓
96DSR			✓	✓	✓	✓		

Model	96DSE	96DSR
Throughput	1.96	4
Fluorescence Channels	6	7s
Fluorescence Scanning Time		
Optical System		
Light Source	High-brightness long-life and maintenance-free LED light source, excitation from the top	
Detector	Photodiode RD), top scanning	
Excitation Range	CH1: 465nm CH2: 527nm CH3: 580nm CH4: 632nm CH5: 680nm CH6: 465nm	
Detection Range	CH1: 510nm CH2: 563nm CH3: 616nm CH 4: 664nm CH5: 730nm CH6: 616nm	
Fluorescence Dynamic Range	Adjustable	
Sample Dynamic Range	1.10^{10} copies	
Thermal Block		
Heating Method	Peltier	
Max Heating Rate	$\geq 6.1^{\circ}\text{C/s}$	
Max Cooling Rate	$\geq 5.0^{\circ}\text{C/s}$	
Uniformity of Thermo Control	$\pm 0.1^{\circ}\text{C}$	
Accuracy of Thermo Control	$\pm 0.1^{\circ}\text{C}$	
Gradient Interval Range	$1^{\circ}\text{C}-40^{\circ}\text{C}$	
Gradient Block	12 row	
Special Temperature Protocol	Thermal gradients PCR, Long pat Touch Down PCR	
Sample Testing Linearity and Repeatability	Linea Correlation: $r > 0.999$ Repeatability: cycle threshold (Ct) value CV < 0.5%	
Software Functions		
Control Modes	Model: 10.4inch touch screen Mode 2: PC direct control	
Power Failure Protection	Automatically start running experiments after power supply, no need to wait PC software	
Data Storage and Transmission	Upload and download through USBdisk 1000 results can be stored in machine	
Reporting Function	Templates reserved; customized experiment report	
Key Applications	Relative quantification, absolute quantification, melting curve analysis, SNP analysis	
Others		
Operating System for PC	Win 7, Win 10	
Power Supply and Power Consumption	AC 100-240V, 50-60Hz; 900VA	
Weight	30kg (net)	
Instrument Dimension	355mm*475mm*484mm (W*L*H)	
Suitable Consumables	0.2 mL 96-well plates, 8-tube strips, single tubes (clear, frosted and white)	



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