



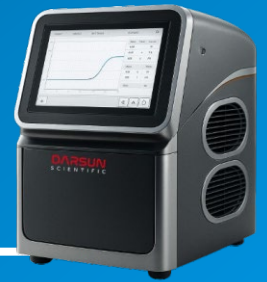
# 96DSE/96DSR

## Real-Time PCR System

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# 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

Model	Throughput	Gradient	Channel 1	Channel 2	Channel 3	Channel 4	Channel 5	Channel 6
			FAM, SYBR Green, SYTO9, Eva Green, LC Green	HEX, VIC, TET, JOE	ROX, TexasRed	Cy5	Alexa Fluor 680	FRET
96DSE	1-96	Yes	✓	✓	✓	✓	✓	✓
96DSR			✓	✓	✓	✓		

Model	96DSE	96DSR
Throughput		1.96
Fluorescence Channels		6
Fluorescence Scanning Time		7s
Optical System		
Light Source		High-brightness long-life and maintenance-free LED light source, excitation from the top Photodiode RD), top scanning
Detector		
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 <sup>9</sup> copies
Thermal Block		
Heating Method		Peltier
Max Heating Rate		≥6.1°C/s
Max Cooling Rate		≥5.0°C/s
Uniformity of Thermo Control		±0.1°C
Accuracy of Thermo Control		≤0.1°C
Gradient Interval Range		1°C-40°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)



**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/cooling method, the maximum heating ramp rate is ≥6.1°C/s and the maximum cooling ramp rate is ≥5.0°C/s.



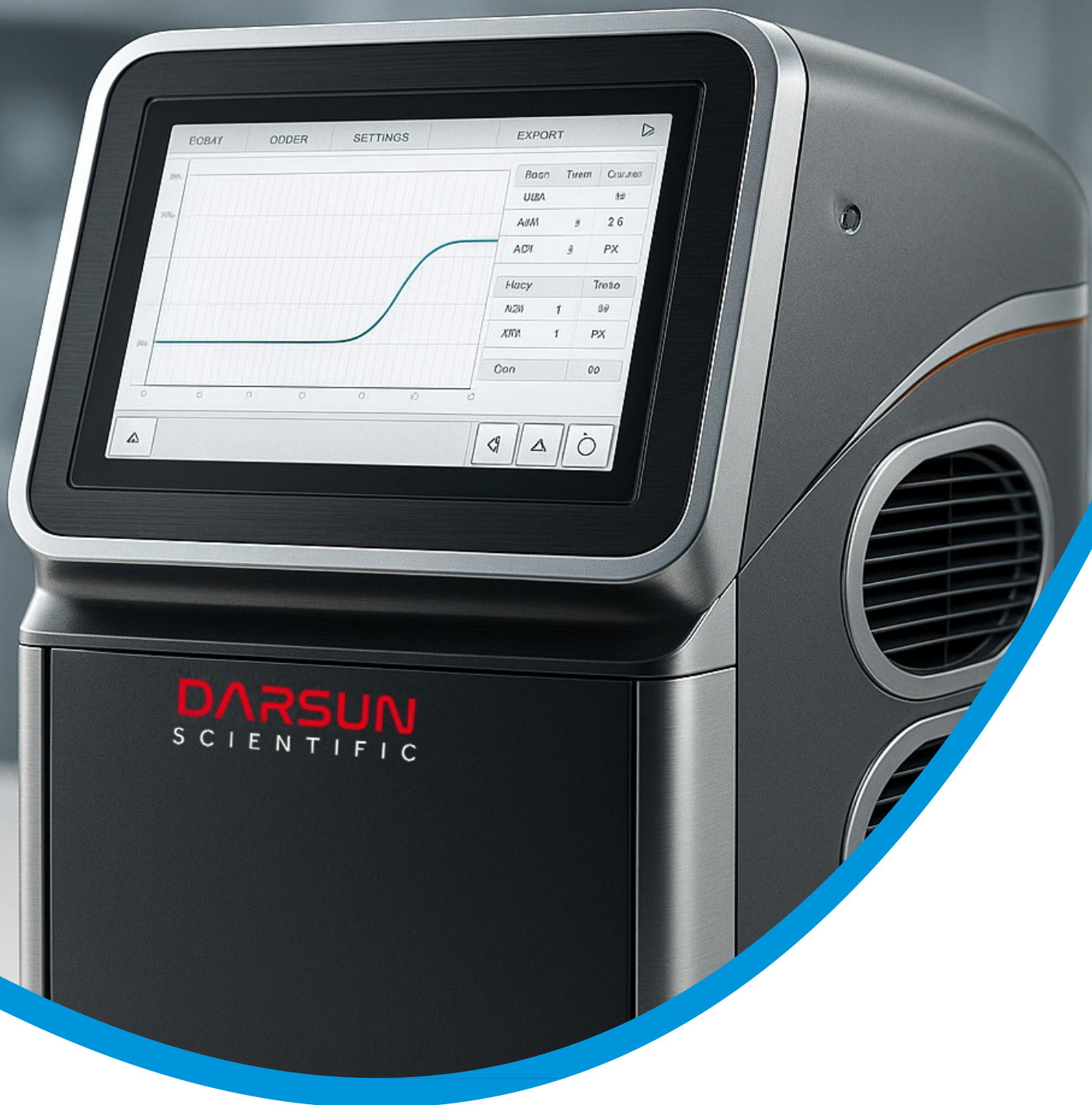
**Power failure protection design** Power failure protection design can recover the experiment automatically, with no more concern about instantaneous power failure.



**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.



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