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# Gentier 96E/96R

## Real-Time PCR System

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



Model	Throughput	Gradient	Channel 1 FAM, SYBR Green I, SYTO 9, Eva Green, LC Green	Channel 2 HEX, VIC, TET, JOE	Channel 3 ROX, Texas Red	Channel 4 Cy5	Channel 5 Alexa Fluor 680	Channel 6 FRET
Gentier 96E	1-96	Yes	✓	✓	✓	✓	✓	✓
Gentier 96R			✓	✓	✓	✓		

### 96 samples to be scanned in 7s

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  $>6.1^{\circ}\text{C/s}$  and the maximum cooling ramp rate is  $>5.0^{\circ}\text{C/s}$ .

### 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.

## SPECIFICATIONS

Model	Gentier 96E	Gentier 96R
Throughput	1-96	
Fluorescence Channels	6	4
Fluorescence Scanning Time	7s	
Optical System		
Light Source	High-brightness, long-life and maintenance-free LED light source, excitation from the top	
Detector	Photodiode (PD), 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 <sup>10</sup> copies	
Thermal Block		
Heating Method	Peltier	
Heating Rate	>6.1°C/s	
Cooling Rate	>5.0°C/s	
Temperature Uniformity	±0.1°C	
Temperature Accuracy	≤0.1°C	
Gradient Range	1°C-40°C	
Gradient Block	12 row	
Special Temperature Protocol	Thermal gradients PCR, Long PCR, Touch Down PCR	
Sample Testing Linearity and Repeatability	Linear Correlation: /r/ >0.999    Repeatability: cycle threshold (Ct) value CV <0.5%	
Software Functions		
Control Modes	Mode1: 10.4 inch 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 USB disk,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	555mm*475mm*484mm (W*L*H)	
Suitable Consumables	0.2 mL 96-well plates, 8-tube strips, single tubes (clear, frosted and white)	

Version 3.0

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FEATURES