

# TIANLONG MOLECULAR DIAGNOSTIC



Consistent  
Customer-First Service



Professional Technical  
Support Team



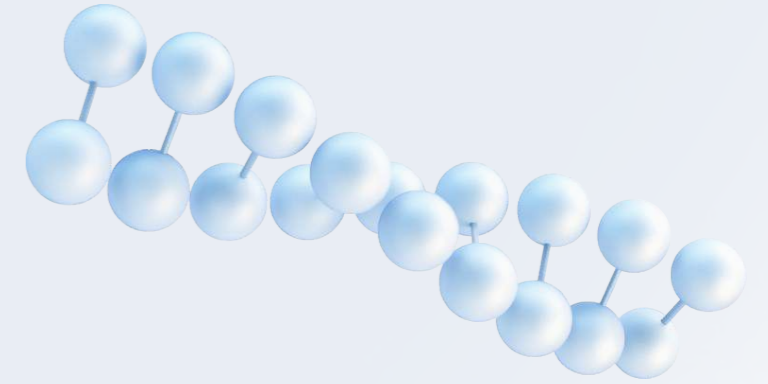
Worry-Free  
After-Sales Services

## Gentier 96E/96R Real-Time PCR System



TAILORED FOR HIGH-END  
LABORATORY NEEDS





## Gentier 96E/96R Real-Time PCR System

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Gentier 96E/96R Real-Time PCR System is designed to meet the experimental needs of high-end laboratories. For its excellence in quality and performance, it is included in the Catalogue of Excellent Domestic Medical Equipment released by China Association of Medical Equipment. With the 6 (96E)-/4 (96R)- fluorescence channels, Gentier 96E/96R can process 96 samples in one run. Various downstream applications including multiplex gene qualitative detection, quantitative analysis, SNP analysis, and melting curve analysis, can be carried out easily with the powerful and efficient temperature control system and fluorescence system, easy-to-use software, user-friendly operational designs.

DESIGNED FOR  
HIGH-END USERS

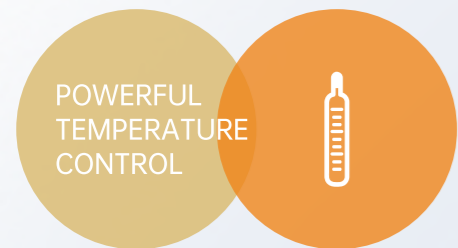




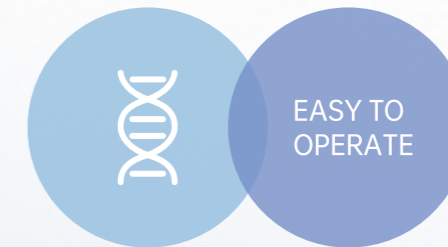
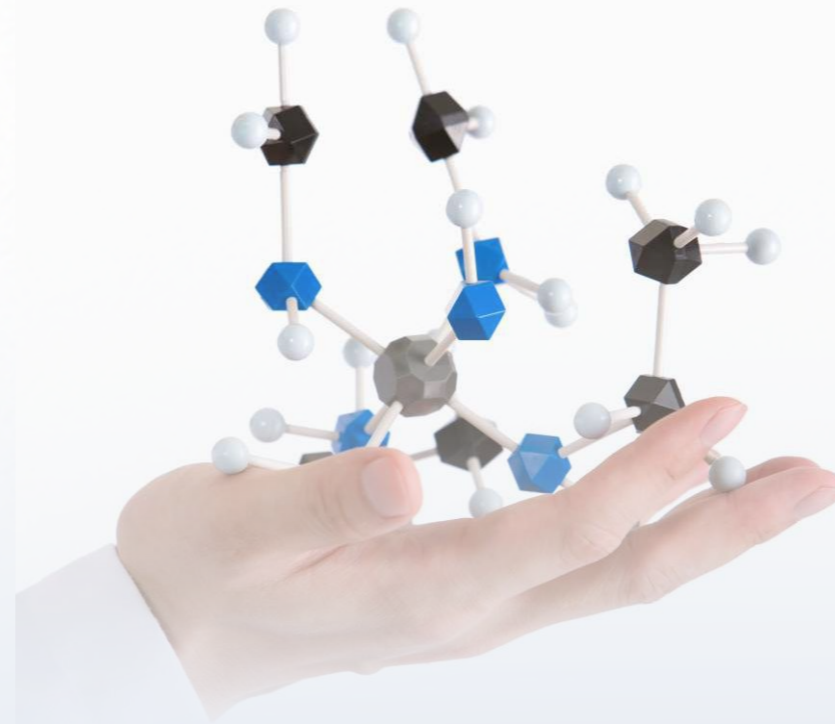
## FEATURES



The 6 (96E)-/4 (96R)- fluorescence channels compatible with most of the common fluorescent dyes and probes of regular detection reagents. Specifically, the FRET (Fluorescence Resonance Energy Transfer) channel enables lower background fluorescence value and higher sensitivity for your detection needs. Also, the high-brightness, long-life LED light source can be maintenance-free for life.



The maximum heating ramp rate is  $\geq 6.1^{\circ}\text{C}/\text{s}$ , and the maximum cooling ramp rate is  $\geq 5.0^{\circ}\text{C}/\text{s}$ , for quicker completion of your assays; the temperature accuracy is  $\leq 0.1^{\circ}\text{C}$  to ensure accurate results.



Automated sample chamber; cloud-enabled control from PC via network connection; or stand-alone operation with the built-in 10.4-inch touch screen; data storage of at least 1,000 experiments within the instrument.



Capable of various data analyses to meet the needs of most experiments, including qualitative analysis, absolute quantitative analysis, relative quantitative analysis, end-point fluorescence analysis, melting curve analysis, etc. Featured Power Failure Protection design, no more concern about instantaneous power failure.



## GENTIER 96E/96R IN CUSTOMER APPLICATIONS

With Gentier 96E/96R Real-Time PCR System has been proudly serving Tianlong customers including thousands of medical institutions, CDCs, customs, food & beverage enterprises, forensic institutions, universities and research institutes in over 50 countries around the world, and has received unanimous praise from customers.



China National Biosafety Laboratory (CCTV News)



A disease control center in South Korea



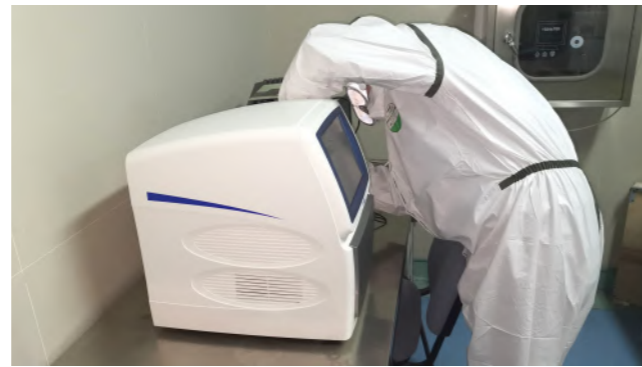
Customized for an IVD company (Singapore)



A medical center in Kazakhstan



China-Japan Friendship Hospital (Beijing, China)



Tongji Hospital (Wuhan, China)

## SPECIFICATIONS

Model	Gentier 96E	Gentier 96R
Throughput	96	
Fluorescence Channels	6	4
Compatible Fluorophores	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	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
Light Source	High-brightness, long-life and maintenance-free LED light source, excitation from the top	
Detector	Photodiode (PD), top scanning	
Heating Rate	Maximum heating ramp rate $\geq 6.1^{\circ}\text{C/s}$ ; Average heating ramp rate $\geq 4.5^{\circ}\text{C/s}$	
Cooling Rate	Maximum cooling ramp rate $\geq 5.0^{\circ}\text{C/s}$ ; Average cooling ramp rate $\geq 2.8^{\circ}\text{C/s}$	
Temperature Uniformity	$\pm 0.1^{\circ}\text{C}$	
Temperature Accuracy	$\leq 0.1^{\circ}\text{C}$	
Special Temperature Setting Function	Support thermal gradients PCR, Long PCR, Touch Down PCR	
Suitable Consumables	0.2 mL 96-well plates, 8-tube strips, single tubes (clear, frosted and white)	
Sample Testing Linearity and Repeatability	Linear Correlation: $ r  \geq 0.999$ Repeatability: cycle threshold (Ct) value CV $\leq 0.5\%$	
Software Analysis	Qualitative analysis, absolute quantitative analysis, relative quantitative analysis, end point fluorescence analysis, melting curve analysis, and genotyping analysis, etc.	
Control Method	Stand-alone operation: 10.4-inch touchscreen control; Cloud-enabled: PC software control via direct connection or LAN (local area network)	
Power Failure Protection	Automatic recovery of the experiment and other functions when the power is on again after cutting off, without waiting for the power-on of the computer or software control	
Data Storage and Transmission	A single machine can store more than 1000 experimental data files, which can be imported and exported via USB disks	
Reporting Function	Built-in experiment report templates for a variety of industries; Fully open universal reporting of which the contents and formats can be customized	
Operating System for PC	Win 7, Win 10	
Instrument Dimensions	355mm $\times$ 475mm $\times$ 484mm (W $\times$ L $\times$ H)	
Weight	30kg (net)	
Power Supply and Power Consumption	AC 100-240V, 50-60Hz; 900VA	