

Bring Technology to Life



# Gentier 96T

## Real-Time PCR System

The Tianlong Gentier 96T Real-Time PCR System is designed to meet the experimental needs of high-end laboratories. With the 6 fluorescence channels, Gentier 96T 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 96T can provide maximal reliability and efficiency for all your real-time PCR needs.



Model	Throughput	Gradient	Channel 1	Channel 2	Channel 3	Channel 4	Channel 5	Channel 6
			FAM, SYBR Green I, SYTO 9, Eva Green, LC Green etc.	HEX, VIC, TET, JOE etc.	ROX, Texas Red etc.	Cy5 etc.	Alexa Fluor 680 etc.	Tamra, Cy3, NED, etc.
Gentier 96T	1-96	Yes	✓	✓	✓	✓	✓	✓

## SPECIFICATIONS

Model	Gentier 96T
Throughput	1-96
Fluorescence Channels	6
Fluorescence Scanning Time	7s
<b>Optical System</b>	
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 CH6:527nm
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
<b>Thermal Block</b>	
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 PCR, Touch Down PCR
Sample Testing Linearity and Repeatability	Linear Correlation: /r/ >0.999 Repeatability: cycle threshold (Ct) value CV <0.5%
<b>Software Functions</b>	
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
<b>Others</b>	
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 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°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 96T offers various data analysis functions, including absolute quantitative analysis, relative quantitative analysis, SNP analysis, melting curve analysis, etc.

## FEATURES

Version 3.0

All rights reserved by Tianlong. June 26, 2024



## Tianlong Science and Technology

Mail: inquiry@medtl.com  
 Phone: 86 029 82682132  
 Website: www.medtl.net  
 Address: No. 389 Zhuhong Road, Xi'an, China