

# Gentier 96E



**Product:** Gentier 96E Real-Time PCR System

**Description:** Real-Time PCR System which real-time measures nucleic acid signals from DNA-binding fluorescent dyes or labeled probes and converts them to comparative quantitative readouts of DNA or reverse transcribed RNA. It is an ideal choice for qPCR

System uses 0.2ml 96-well plates or 0.2ml strips, or single- 0.2ml PCR tubes (100  $\mu$ L of reaction volume) to process 96 samples in one batch.

## Key Features:

- 10 inch touch screen, all commands in one touch
- Easy-to-use software
- Advanced temperature control
- LED-excitation and Photodiode detection (7 seconds for 96 wells for all channels)
- Outstanding and powerful data analysis functions
- Report can be customized



## Specifications:

<b>Thermal Block</b>	Sample Capacity	96
	Reaction Volume	0-100 $\mu$ L
	Consumables	0.2ml 96-well Plates (unskirt); 0.2ml 8-strip tubes, 0.2ml PCR single tube (optical flat cap, clear, frosted, white tube)
	Temperature Range	0°C-100°C
	Heating/Cooling Method	Peltier
	Max Heating Rate	6.1°C/sec
	Average Heating Rate	4.5°C/sec
	Max Cooling Rate	5.0°C/sec
	Average Cooling Rate	2.8°C/sec
	Temperature Accuracy	$\pm 0.1^\circ\text{C}$
	Temperature Uniformity	$\pm 0.1^\circ\text{C}$
	Gradient Range	1°C-40°C
	Gradient Block	12 row
	Special Temp. Protocol	Gradient PCR, Long PCR, Touch Down PCR



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Quality Products, Quality Service

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<b>Heat Lid</b>	Temperature Range	Room Temperature-110°C
<b>Optical System</b>	Excitation Source	6 LEDs
	Detector	Photodiode
	Detection Position	Excitation and scan at top
	Detection Method	6 channels scanning at the same time, no edge effect
	Detection Time	7 seconds for 96 wells for all channels
	Range of Excitation/ Emission Wavelengths (nm)	1.465/510 (FAM, SYBR Green I, SYT09, EvaGreen, LC Green) 2.527/563 (HEX, VIC, TET, JOE) 3.580/616 (ROX, Texas Red) 4.632/664 (Cy5) 5.680/730 (Alexa Fluor680) 6.465/616 (FRET)
	Probe	Taqman Probe, Molecular beacons probe, Scorpion probe, FRET
	Multiplexing	Up to 6 targets
	Fluorescence Linearity	$r \geq 0.990$
	Fluorescence Dynamic Range	Adjustable
<b>Performance</b>	Sample Linearity	$r^2 \geq 0.999$
	Sample Repeatability	Ct value CV $\leq 0.5\%$
	Sample Dynamic Range	1-10 <sup>10</sup> copies
<b>Software Function</b>	Data Analysis modes	Qualitative analysis, Absolute quantification, Relative quantification, Genotyping analysis, Endpoint analysis, Melt curve analysis, High Resolution Melting
	Control Modes	1.10.4' touchscreen   PC direct control   WLAN control (One PC can control max 10 units, device can be controlled by any PC in the WLAN)
	Sample Drawer	Touch screen command
	Data Storage	Upload and download through USB disk, 1000 results can be stored in machine
	Power Failure Protection	Automatically start running experiments after power supply, no need wait PC software
	Customize Report	Templates reserved, report can be customized
	Admin. Management	Administrator can set functions limits for users
	Transport Locker	Automatically detect transport locker
	Fault Management	Fault report and analysis, solution instruction
	LIS Connection	CSV,Excel, TXT format data output, open port for LIS connection
<b>Others</b>	PC Operating System	Win 7, Win 10
	Communication Port	1 ethernet and 3 USB
	Footprint (W x D x H)	355mm x 480mm x 485mm
	Weight	30kg
	Power Usage	AC 100 to 125 V / 200 to 240 V (50/60 Hz)
	Power Consumption	900VA
	Work Environment	Temperature: 10°C~30°C; Humidity: 20%~85%

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