Bring Technology to Life

Gentier 48E/48R Real-time PCR System

The Tianlong Gentier 48E/48R Real-time PCR System incorporates innovative optical technologies with powerful software to provide maximal reliability and efficiency for all your real-time PCR needs. It is designed to meet the needs of small and medium-sized laboratories, mobile laboratories, and on-site testing. With the 4/2 fluorescence channels, Gentier 48E/48R can process 48 samples in one run. It can make your experiments easier to use, more accurate, and efficient of its excellent performance and portability.



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Model	Throughput	Gradient	Channel 1	Channel 2	Channel 3	Channel 4
			FAM, SYBR Green l, etc.	VIC, HEX, TET, JOE, etc.	ROX, Texas Red, etc.	Cy5, etc.
Gentier 48E	1-48	Yes	\checkmark	\checkmark	\checkmark	\checkmark
Gentier 48R	1*40		~	\checkmark		

48 samples to be scanned in 2s

Only 2s for all 48 wells of fluorescence scanning can significantly reduce testing time and improve efficiency for lab professionals.

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More convenient with two configurations

Standalone configuration: 7-inch touch screen, direct print sample amplification curve, and CT values by connecting to a thermal printer(optional); PC control configuration: PC software control via connection, one PC can max control 10 instruments.

FEATURES

Efficient temperature control

Gentier 48 E/R only takes 40 minutes to complete a standard PCR amplification process. Temperature accuracy is controlled within 0.1°C .



User-friendly and more flexible

Small in size and light in weight, it can be moved flexibly to your mobile laboratory for on-site testing.

Powerful software analysis

Gentier 48 E/R offers multiple functions including relative quantification, absolute quantification, melting curve analysis, SNP analysis, and is compatible with other fluorescence analysis functions based on the isothermal amplification technique.

SPECIFICATIONS

Model	Gen
Throughput	
Fluorescence Channels	
Fluorescence Scanning Time	
Optical System	
Light Source	High-brightness,
Detector	Photodiodes (PD
Excitation Range	CH1: 470nm CH2
Detection Range	CH1:525nm CH2
Fluorescence Dynamic Range	Adjustable
Sample Dynamic Range	1-10 ¹⁰ copies
Thermal Block	
Heating Method	Peltier
Heating Rate	≥ 8.0°C/s
Cooling Rate	≥ 6.2°C/s
Temperature Accuracy	≤ 0.1°C
Gradient Range	1°C-40°C
Gradient Block	8 row
Special Temperature Protocol	Thermal gradien
Sample Testing Linearity and Repeatability	Linear correlatio
Software Functions	
Control Modes	Mode1: 7 inch t
Power Failure Protection	Automatically st
Data Storage and Transmission	Upload and dow
Reporting Function	Templates reserv
Key Applications	Relative quantifi
Others	
Operating System for PC	Win7/Win10/Wi
Power Supply and Power Consumption	AC 100-240V, 50
Weight	11 Kg (net)
Instrument Dimension	260*400*260mm
Suitable Consumables	0.2mL clear non-

Version 4.0





tier 48E	Gentier 48R
1-	48
4	2
	2s

s, long-life and maintenance-free LED light source

2		
	с	۱
1	0	1

H2:523nm CH3:570nm CH4:638nm

2:564nm CH3:610nm CH4:685nm

nts PCR, Long PCR, Touch Down PCR

on: $/r \ge 0.999$ Repeatability: cycle threshold (Ct) value CV $\le 0.5\%$

touch screen, Mode 2: PC direct control

start running experiments after power supply, no need to wait PC software

wnload through USB disk,1000 results can be stored in machine

rved; customized experiment report

fication, absolute quantification, melting curve analysis, SNP analysis

/in11

50-60Hz; 600VA

m (W*L*H)

n-skirt 48-well plates, 8-tube strips, single tubes, etc.

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