

GentierX3 Series

Real-time PCR System

Tianlong GentierX3 Series Real-time PCR System innovates in flexibility and allows users to control three independent blocks in the same PCR system, saving your time and budget. Maximum 3×32-well samples can be run in three different protocols on three independent thermal blocks simultaneously. With the powerful and efficient temperature control system, user-friendly operational designs, Tianlong Gentier X3 Series can provide maximal reliability and efficiency for all your real-time PCR needs.



Advanced flexibility

Improved workflow

FEATURES



Multi-block design to meet different needs

GentierX3 Series has three independently controlled blocks. Maximum 3×32-well samples can be run in three different protocols on three independent thermal blocks simultaneously.



Only 2s for 32 wells fluorescence scanning

With 6/4 fluorescence channels, GentierX3 Series can complete 32 wells of fluorescence scanning in one block within 2s, which improves efficiency for lab professionals.



Efficient temperature control

3 independent thermal blocks with compensation heating function, temperature accuracy, and temperature precision are all $\leq 0.1^\circ\text{C}$; hot lid with innovative pressure sensing technology ensures that consumables do not deform and reagents do not evaporate



Powerful software analysis

GentierX3 Series can offer multiple functions including absolute quantification analysis, relative quantification analysis, melting curve, high resolution melting (HRM), genotyping, endpoint fluorescence, etc.



User-friendly design for professionals

Built-in 13.3-inch full-color touch, adjustable for different angles; Standalone configuration and PC control configuration; Power failure protection design can recover the experiment automatically;

SPECIFICATIONS

	Gentier X3E	Gentier X3S	Gentier X3R	Gentier X3C
Model				
Touch Screen	YES	NO	YES	NO
Stand Alone Operation	✓	×	✓	×
Throughput	32 x 3			
Fluorescence Scanning Time	2s for 32 wells fluorescence scanning			
Fluorescence Channels	6		4	
Dye Compatibility	Channel 1: FAM, SYBR Green I, etc. Channel 2: HEX, TET, VIC, JOE, etc. Channel 3: Texas Red, ROX, etc. Channel 4: Cy5, etc. Channel 5: Alexa Fluor 680, etc. Channel 6: Tamra, Cy3, NED, etc.		Channel 1: FAM, SYBR Green I, etc. Channel 2: HEX, TET, VIC, JOE, etc. Channel 3: Texas Red, ROX, etc. Channel 4: Cy5, etc.	
Heating Rate	Average Heating Rate: $\geq 4.5^\circ\text{C}/\text{s}$; Max. Heating Rate: $\geq 6.2^\circ\text{C}/\text{s}$			
Cooling Rate	Average Cooling Rate: $\geq 3.5^\circ\text{C}/\text{s}$; Max. Cooling Rate: $\geq 5.0^\circ\text{C}/\text{s}$			
Accuracy of Thermo Control	$\leq 0.1^\circ\text{C}$			
Uniformity of Thermo Control	$\pm 0.2^\circ\text{C}$			
Consistency of Thermo Control	$\leq 0.1^\circ\text{C}$			
Special Temperature Protocol	Touchdown step, long step, gradient step, standard step and so on.			
Repeatability	CV $\leq 1\%$			
Linear Correlation	$ r \geq 0.995$			
Lightsource	High-brightness, long-life, maintenance-free LED light source			
Key Applications	Absolute quantification analysis, relative quantification analysis, melting curve, high resolution melting (HRM), genotyping, end point fluorescence, etc.			
Data Storage	1000 results can be stored in machine			
Power Failure Protection	Automatically start running experiments after power supply			
Communication Specification	Network Port: TCP/IP protocol; Ethernet connection; USB Port: 2.0;			
Power Supply and Power Consumption	AC 100-240V;50/60Hz; 1000VA;			
Suitable Consumables	<p>Conventional 0.2 mL 8-strip PCR tube (clear, white)</p>		<p>Tianlong 0.2 mL 8-strip PCR tube (clear, white)</p> <p><small>*Special tube for use on Tianlong Automated Detection Workflow</small></p>	
Dimension	380mm(L) × 410mm (W) × 395mm (H)			
Weight	34kg			

