

ELEGANT PRODUCT IS YOUR BEST CHOICE !



OUTSTANDING
PCR THERMAL CYCLER
MANUFACTURER

FOCUS | INNOVATIVE | HIGH EFFICIENCY | WIN-WIN RESULT

HANGZHOU LONGGENE SCIENTIFIC INSTRUMENT CO., LTD.

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COMPANY PROFILE

Hangzhou LongGene Scientific Instruments Co., Ltd. established in 2001, is a leading company which specializes in instruments and reagents for life science with advanced and innovative solutions. Our products and services are globally renown, including universities and research centers in North America and Europe. We are the leader of high-end thermal cycler manufacturer in China.

Our senior management team has more than 20 years experience in the life science industry. "Commitment, dedication efficiency, innovation and collaboration" is our company motto. As a pioneer of the life science technology industry in China, we aim to contribute to the global gene technology industry by delivering the most advanced products and cutting-edge solutions.

©Rich history in Manufacturing

Established in 2001, Hangzhou LongGene Scientific Instruments Co.,Ltd. have over 18 years of experience in designing, manufacturing, and marketing biological instruments. Our core values are "Guaranteed Quality for Life" and "Exceptional Attention to Detail".

©Strong manufacturing team

LongGene senior management have over 20 years experience in product design, technological expertise & innovation, having gained valuable knowledge from the USA and within China.

©Extensive product range

Our comprehensive PCR product range will suit all clients needs, including 16 to 384 wells, gradient / multi-gradient Temp. ranges, and single / multi-lid designs. With new and innovative technologies developed by our experienced R&D team, LongGene have released some of the most sought after PCR products in the world.

©Exceptional product quality

Each PCR undergoes 16 thorough quality control checks, ensuring only the finest quality products reach our clients. In 2005, LongGene was approved the international standard ISO9001 and European standard CE. In 2015, the CFDA also approved LongGene's products, making them one of the most reliable and trustworthy products on the market.

DIRECTORY

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Product Introduction

Real-Time PCR System model Q2000	P06
Real-Time PCR System model Q1000/Q1000+	P10
Portable Mini Real-Time PCR Thermal Cycler model Q160	P14

HONORARY CERTIFICATE



PREMIUM SUPPLIERS

- marlow** — World TOP manufacturer of Peltier Elements
- MAXIM** — The world-known provider of electronic components
- TEXAS INSTRUMENTS** — The world-known provider of electronic components
- COSEL** — The world's top manufacturer of industrial switching power supply
- INNOLUX** — The world's largest manufacturer of 7" LCD

DEVELOPMENT HISTORY

2018

- Two new members — T30D & T20D for TalentGene series were launched successfully.
- All jobs for Q160 were finished & began to marketing.

2017

- TalentGene series Thermal Cyclers begin to sell, T20 & T30 became the flagship product of 2017.

2016

- ArtGene series added new member – A600 with six independently regulated thermal blocks to optimize a primer set, which has become the new star on the market.
- LongGene's first Real-Time PCR System–Q1000 is launched to market.

2015

- ArtGene series, L series, MG series Thermal Cyclers receive CFDA certification.

2014

- MiniGene series launched in the market, LongGene Thermal Cycler Family is growing.

2011

- ArtGene series add new member – A300 Fast Gradient Thermal Cycler, boasting a ramping rate of 6°C/sec.

2010

- ArtGene series released & became the main stream model on the market immediately.
- ArtGene—Perfectly integrating ART Technology.

2008

- L series Thermal Cycler launched in market, with 5.7" COLOR TFT graphical display.

2007

- Established stable business relationships with many corporations in overseas markets, LongGene Thermal Cyclers enter North America, South America, Europe, Southeast Asia & South Africa markets.

2005

- Received ISO9001:2000 certificate & CE mark.

2003

- MyGene series MG96+ & MG96G released and became a best-seller domestically & internationally.

2001

- Hangzhou LongGene Scientific Instruments Co., Ltd. is established. First model MG25+ was born.

Q2000 Real-Time PCR System



Block sample capacity: 96 wells * 0.1ml ,
both white & clear low profile PCR tubes can be used

Patented drawer type sample block design,
easy to insert & remove sample



10.1" TFT Full Color Touch Screen,
real-time graphical display

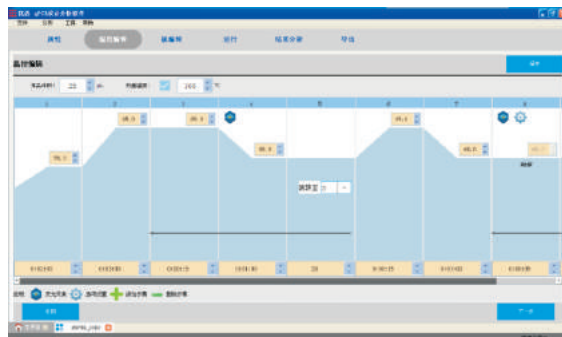
T-Optical™ top detection technology,
greatly reduce background noise

- ◎The new powerful Peltier technology, fast ramping rate up to 6°C/s.
- ◎T-Optical™ technology, reduce background noise, improve fluorescence signal sensitivity and signal to noise ratio.
- ◎The angle of display could be adjusted to the best view.
- ◎96 wells*2/4/6 channels, simultaneous detection of wells, not in sequence.
- ◎User could view qPCR process and run PCR protocol through self-contained 10" TFT LCD and touch screen.
- ◎Special designed optical system for qPCR, avoiding more moving parts problems like overheat, wear and off center. Not optical fiber based, avoiding break and block by dust.
- ◎Long life LED lamps to excite fluorescence and detect with SSLP™ CCD imaging technology.
- ◎Sample wells with temperature gradient function, convenient to optimize PCR conditions.
- ◎The drawer design of sample block, makes it easier to pick and place PCR tubes and plates.
- ◎The qPCR analysis software could be upgraded for free.

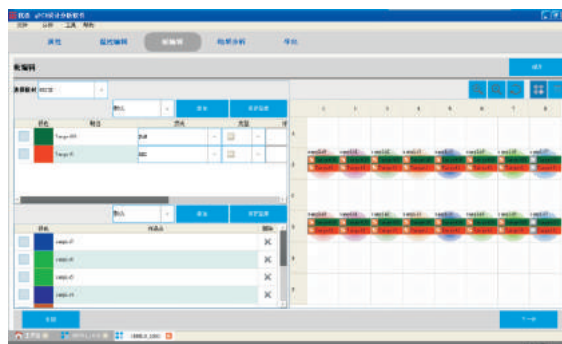
Model	Q2000A	Q2000B	Q2000C
	INSTRUMENT PERFORMANCE		
Sample Block Capacity	96 wells * 0.1ml		
Reaction Volume	10–50ul (recommend 20ul)		
Tubes Option	Low profile, white or clear PCR tubes or strips or 96 well PCR plate, with optical flat cap		
Heating & Cooling Technology	New generation Peltier technology allow 1,000,000 cycles		
Control Methods	Operated via PC or self-contained touch screen on instrument		
Language	English		
Communications	USB 2.0 & LAN		
Display	10" Color TFT LCD and Touch Screen		
Max. Number of Programs	Max.15,000 programs onboard, unlimited storage of protocols with USB flash drive		
	TEMPERATURE		
Block Temp.Range	0°C~105°C		
Max. Heating Rate	6°C/sec		
Max. Cooling Rate	5°C/sec		
Temp.Uniformity	≤ ± 0.2°C at 90°C		
Temp.Accuracy	≤ ± 0.1°C (10 seconds after reach 90°C)		
Display Resolution	0.1°C		
Heat Lid Temp. Range	30°C~112°C		
Temp.Control Mode	Block & Calculated sample		
Gradient Range	30°C ~ 100°C		
Temp.Differential Range	1°C ~ 30°C		
	FLUORESCENCE DETECTION		
Excitation	Long life LED lamps		
Detection	CCDs		
Dynamic Range	1 ~ 10 ¹⁰		
Sensitivity	≥1 copy		
Calibrated Dyes at Installation	F1: FAM、SYBR GREEN F2: VIC、HEX、JOE、CY3、NED	F1: FAM、SYBR GREEN F2: VIC、HEX、JOE、CY3、NED F3: ROX、TEXAS-RED F4: CY5	F1: FAM、SYBR GREEN F2: VIC、HEX、JOE、CY3、NED F3: ROX、TEXAS-RED F4: CY5 F5: CY5.5 F6: Reserved
Fluorescence Excitation Range	300 ~ 800nm		
Fluorescence Detection Range	500 ~ 800nm		
Data Export Formats	EXCEL, TXT		
	Other Features		
AC Power Supply	100 ~ 240V, 50 ~ 60Hz		
Consumption	600W		
Net Weight	13 KG		
Dimension (L × W × H)	334 × 280 × 365 mm		
Computer Operating Systems	Windows10. Windows7. WindowsXP		

Q2000 Real-Time PCR System Software

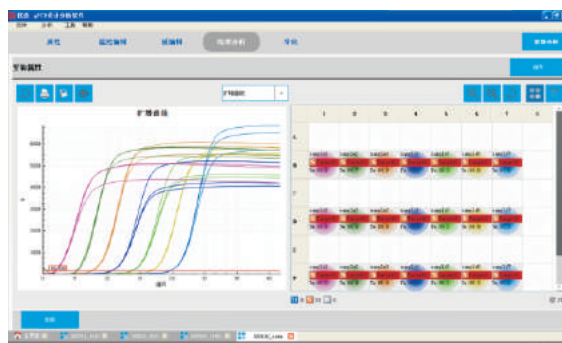
1. Connection via an ethernet cable or via router.
2. Pre-calibrated optics allow you to start using the instrument immediately, no additional calibration is required.
3. Quality control (QC) on data automatically, ensuring reliability of analysis results.
4. Graphical display of protocols, default templates, and real-time run status.



5. Simple and intuitive program, easy to use, without prior reading the user guide thoroughly.
6. PCR protocols can be run via a computer network or in the stand-alone mode (using a USB flash drive)
7. Real-time monitoring of amplification curve or melt curve via the 10" display and touch screen.
8. Intuitive qPCR plate setup.

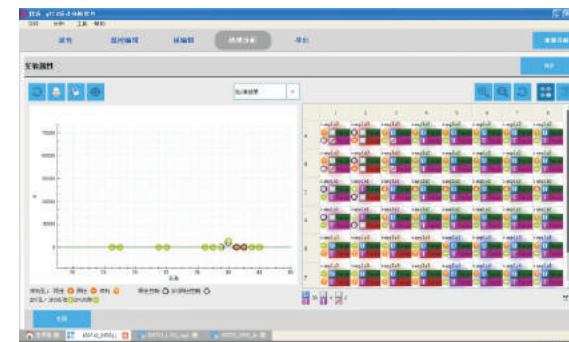


9. Thermal gradient capability with 12 columns for optimizing PCR reaction protocol.
10. Protocols and plate setups can be saved as templates for future use.
11. Multitasking software, able to analyze multiple experiments at the same time.



12. Varieties of Data Analysis Methods are include.

(1) Standard curves for absolute quantification



(2) Melt-curve to verify product identity

(3) Relative quantification for gene expression analysis, with multiple reference genes & amplification efficiency correction

(4) Allelic discrimination (SNP Genotyping) using two allele-specific probes, with automated calling & quality-value assignment

(5) Presence/Absence (Plus/Minus) assays with/without internal positive control (IPC) for pathogen detection



13. A variety of algorithms are included, such as auto-baseline, manual-baseline, auto-threshold, manual-threshold, amplification efficiency (E), able to streamline data analysis.

14. Export results to .xls, .txt.

Q1000/Q1000+ Real-Time PCR System



Block sample capacity: 48 wells * 0.1ml ,
both white & clear low profile PCR tubes can be used

Patented drawer type sample block design,
easy to insert & remove sample



7" TFT Full Color Touch Screen,
real-time graphical display

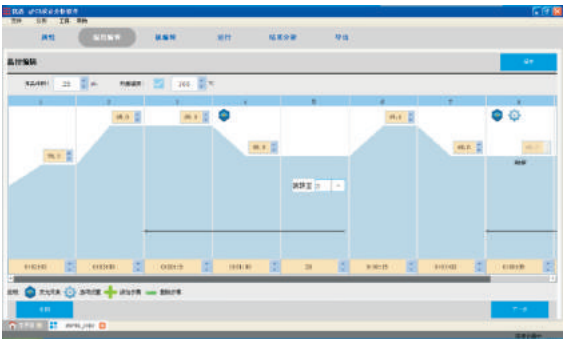
T-Optical™ top detection technology,
greatly reduce background noise

- ◎The new powerful Peltier technology, fast ramping rate up to 7°C/s.
- ◎T-Optical™ technology, reduce background noise, improve fluorescence signal sensitivity and signal to noise ratio.
- ◎Simultaneous detection of wells, not in sequence.
- ◎User could view qPCR process and run PCR protocol through self-contained 7" TFT LCD and touch screen.
- ◎Special designed optical system for qPCR, avoiding more moving parts problems like overheat, wear and off center. Not optical fiber based, avoiding break and block.
- ◎Long life LED lamps to excite fluorescence and detect with SSLP™ CCD imaging technology.
- ◎Sample wells with temperature gradient function, convenient to optimize PCR conditions.
- ◎The drawer design of sample block, makes it easier to pick and place PCR tubes and plates.

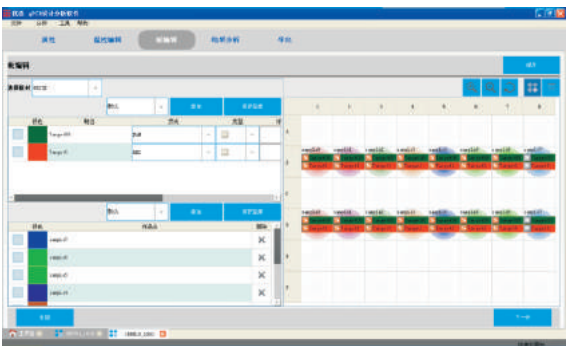
Model	Q1000	Q1000+
	INSTRUMENT PERFORMANCE	
Sample Block Capacity	48 wells * 0.1ml	
Reaction Volume	10–50ul (recommend 20ul)	
Tubes Option	Low profile, white or clear PCR tubes or strips of tubes with optical flat cap	
Heating & Cooling Technology	New generation Peltier technology allow 1,000,000 cycles	
Control Methods	Operated via PC or self–contained touch screen on instrument	
Language	English	
Communications	USB 2.0 & LAN	
Display	7" Color TFT LCD and Touch Screen	
	TEMPERATURE	
Block Temp.Range	0℃~105℃	
Max. Heating Rate	7℃/sec	
Max. Cooling Rate	5℃/sec	
Temp.Uniformity	≤ ± 0.2℃ at 90℃	
Temp.Accuracy	≤ ± 0.1℃ (10 seconds after reach 90℃)	
Display Resolution	0.1℃	
Heat Lid Temp. Range	30℃~112℃	
Temp.Control Mode	Block & Calculated sample	
Gradient Range	30℃ ~ 100℃	
Temp.Differential Range	1℃ ~ 24℃	
	FLUORESCENCE DETECTION	
Excitation	Long life LED lamps	
Detection	CCDs	
Dynamic Range	1 ~ 10 ¹⁰	
Sensitivity	≥1 copy	
Calibrated Dyes at Installation	F1： FAM、SYBR GREEN F2： VIC、HEX、JOE、CY3、NED	F1： FAM、SYBR Green F2： VIC、HEX、JOE、CY3、NED F3： ROX、TEXAS–RED F4： CY5
Fluorescence Excitation Range	300 ~ 800nm	
Fluorescence Detection Range	500 ~ 800nm	
Data Export Formats	EXCEL, TXT	
	Other Features	
AC Power Supply	100 ~ 240V, 50 ~ 60Hz	
Consumption	400W	
Net Weight	8.2 KG	
Dimension (L × W × H)	320×205×380 mm	
Computer Operating Systems	Windows10、Windows7、WindowsXP	

Q1000/1000+ Real-Time PCR System Software

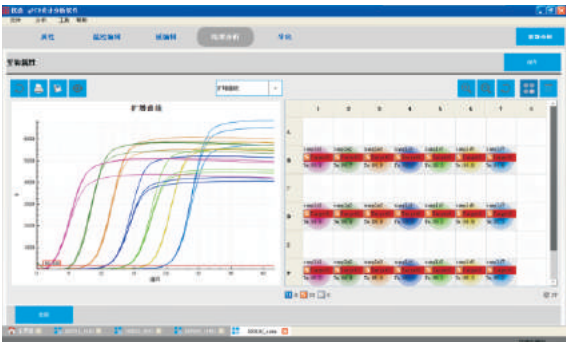
1. Connection via an ethernet cable or via router .
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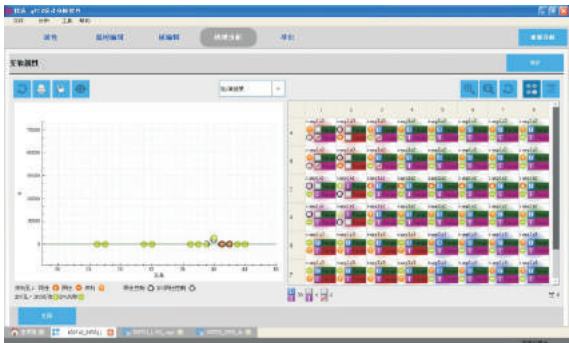


9. Thermal gradient capability for optimizing PCR reaction temperatures.
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11. Multitasking software, able to analyze multiple experiments at the same time.



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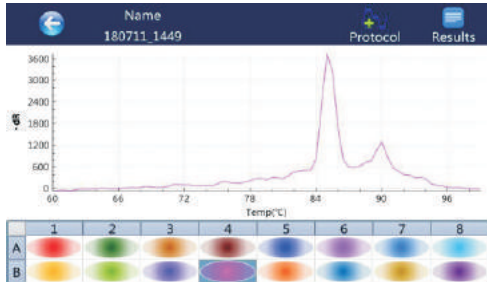
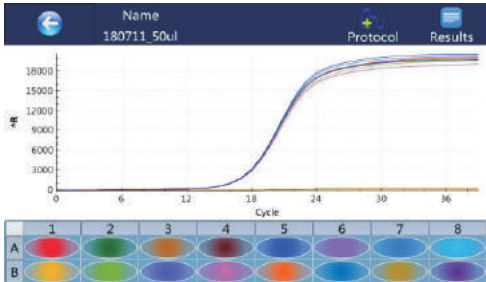
OPTIMUMGENE™ SERIES

Q160 Portable Mini Real-Time PCR Thermal Cycler



©Software Function

Amplification curves, melt peak curves and standard curves could be view directly on the screen.



		Raw Data							
		1	2	3	4	5	6	7	8
A	Ct value	18.20		18.15		18.20		18.20	
B	Ct value		18.10		18.21		18.12		18.20

		Raw Data							
		1	2	3	4	5	6	7	8
A	+/-	+	+	+	+	+	+	?	?
B	+/-	+	+	+	+	+	+	?	?

Analysis function like automatic calculation for Ct value and Melt temperature (Tm) Value, and Negative/Positive Automated Determination on board.

Model	Q160
PERFORMANCE	
Sample Block Capacity	16 wells * 0.1ml
Reaction Volume	10–100ul
Tubes Option	Low–profile white or clear 0.1 ml PCR tube/8–tube strips with optical flat cap
Heating & Cooling Technology	New generation Peltier technology allow 1,000,000 cycles
Control Methods	Built-in full operation and analysis functions, no external computer required
Language	English
Communication Ports	USB 2.0 & LAN, export data via USB flash drive
Display	7" Color TFT Touch Screen
TEMPERATURE	
Block Temp.Range	4°C~100°C
Max. Heating Rate	5°C/sec
Max. Cooling Rate	4°C/sec
Temp.Uniformity	± 0.25°C at 90°C
Temp.Accuracy	± 0.25°C (10 seconds after reach 90°C)
Display Resolution	0.1°C
Heat Lid Temp.Range	30°C~105°C
Temp.Control Mode	Block & Sim–tube mode
OPTICAL MODULE	
Excitation	Long life LED
Detection	High sensitivity photoelectric detector
Dynamic Range	10 ¹ ~ 10 ¹⁰
Detection Sensitivity	Detects 1 copy
Fluorescence Detection Type	T–Optical™ excitation & top detection technology; with no moving parts.
Calibrated Dyes at Installation	Channel 1: FAM、SYBR, Channel 2: VIC、HEX、JOE
Fluorescence Excitation Range	470–500nm
Fluorescence Detection Range	Channel 1: 520 – 540nm, Channel 2: 540 – 700nm
Data Export Formats	Excel, TXT
OTHER FEATURES	
Power	Global switch power supply : 85V–265V, 50–60Hz
Consumption	160W
Net Weight	3.6 KG
Dimensions (L x W x H)	305x 179x 186mm