



ELEGANT PRODUCT IS YOUR BEST CHOICE !



FOCUS | INNOVATIVE | HIGH EFFICIENCY | WIN-WIN RESULT

OUTSTANDING  
PCR THERMAL CYCLER  
MANUFACTURER

**HANGZHOU LONGGENE SCIENTIFIC INSTRUMENT CO., LTD.**

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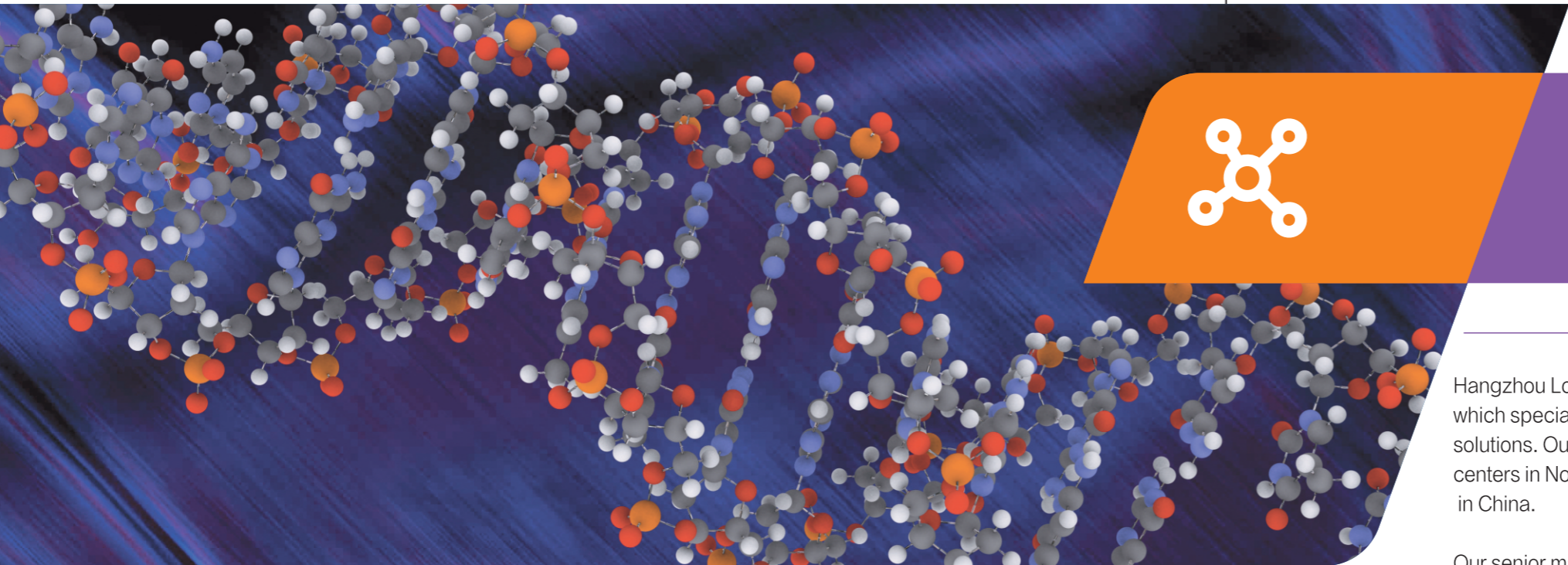
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*LongGene*  
*Scientific*  
*Instruments*  
<http://en.longgene.com/>



# COMPANY PROFILE

## DIRECTORY

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## Product Introduction

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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.

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

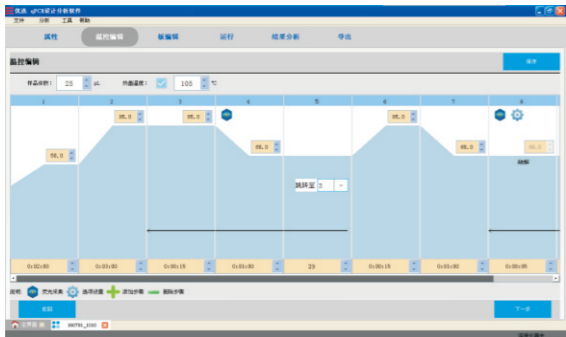
T-Optical™ top detection technology,  
greatly reduce background noise

- ◎ 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.

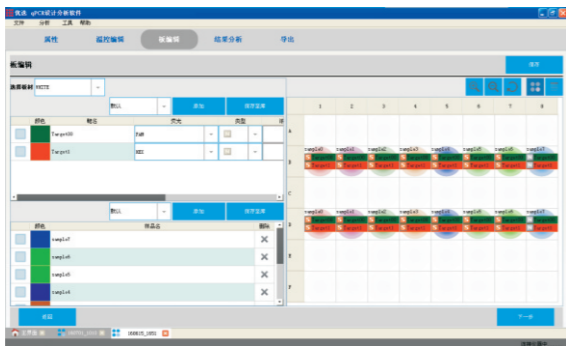
Model	Q2000A	Q2000B	Q2000C
	INSTRUMENT PERFORMANCE		
Sample Block Capacity	96 wells * 0.1ml		
Reaction Volume	10–50ul ( recommend 20ul )		
Tubes Option	Low profile, white or clear PCR tubes or strips or 96 well PCR plate, with optical flat cap		
Heating & Cooling Technology	New generation Peltier technology 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 <sup>10</sup>		
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

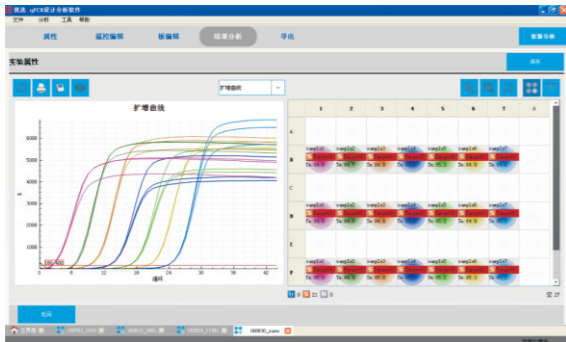
- 1. Connection via an ethernet cable or via router.
- 2. Pre-calibrated optics allow you to start using the instrument immediately, no additional calibration is required.
- 3. Quality control (QC) on data automatically, ensuring reliability of analysis results.
- 4. Graphical display of protocols, default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



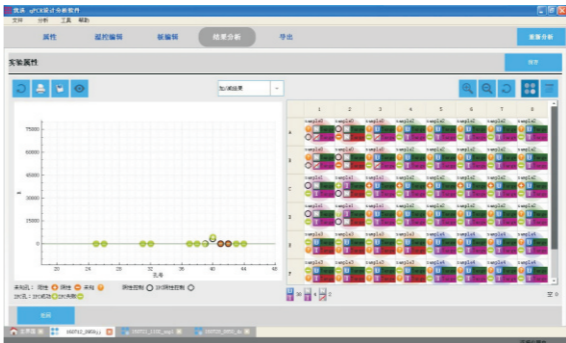
- 5. Simple and intuitive program, easy to use, without prior reading the user guide thoroughly.
- 6. PCR protocols can be run via a computer network or in the stand-alone mode (using a USB flash drive)
- 7. Real-time monitoring of amplification curve or melt curve via the 10'' display and touch screen.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



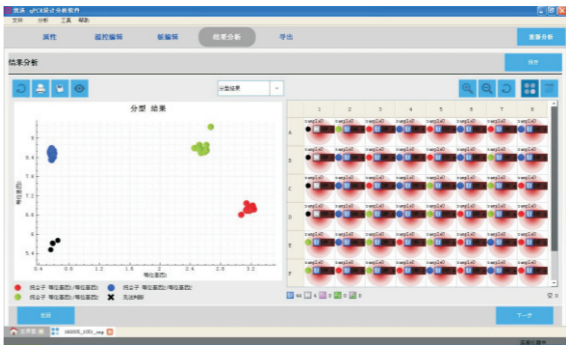
- 9. Thermal gradient capability with 12 columns for optimizing PCR reaction protocol.
- 10. Protocols and plate setups can be saved as templates for future use.
- 11. Multitasking software, able to analyze multiple experiments at the same time.



- 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

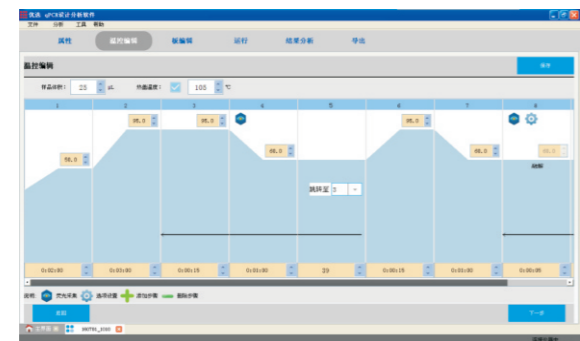
T-Optical™ top detection technology,  
greatly reduce background noise

- ◎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.
- ◎The qPCR analysis software could be upgraded for free.

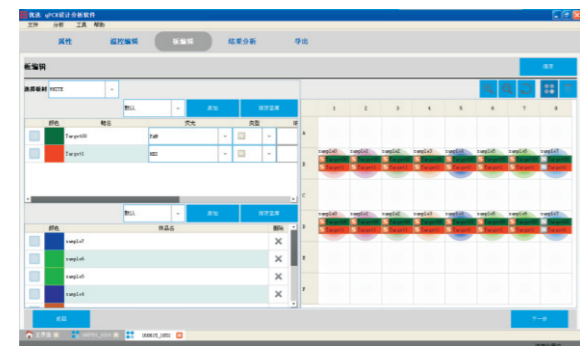
Model	Q1000	Q1000+
	INSTRUMENT PERFORMANCE	
Sample Block Capacity	48 wells * 0.1ml	
Reaction Volume	10–50ul ( recommend 20ul )	
Tubes Option	Low profile, white or clear PCR tubes or strips of tubes with optical flat cap	
Heating & Cooling Technology	New generation Peltier technology allow 1,000,000 cycles	
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 <sup>10</sup>	
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

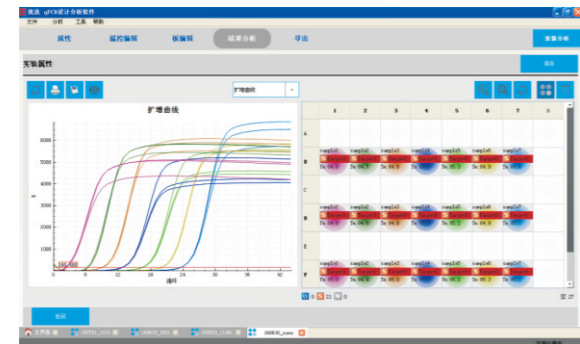
- 1. Connection via an ethernet cable or via router .
- 2. Pre-calibrated optics allow you to start using the instrument immediately, no additional calibration is required.
- 3. Quality control (QC) on data automatically, ensuring reliability of analysis results.
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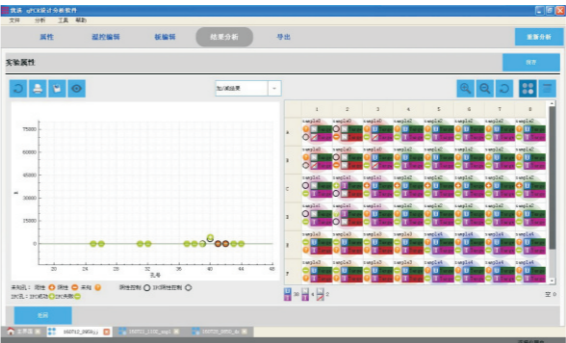


- 9. Thermal gradient capability for optimizing PCR reaction temperatures.
- 10. Protocols and plate setups can be saved as templates for future use.
- 11. Multitasking software, able to analyze multiple experiments at the same time.



12. Varieties of Data Analysis Methods are include.

(1) Standard curves for absolute quantification

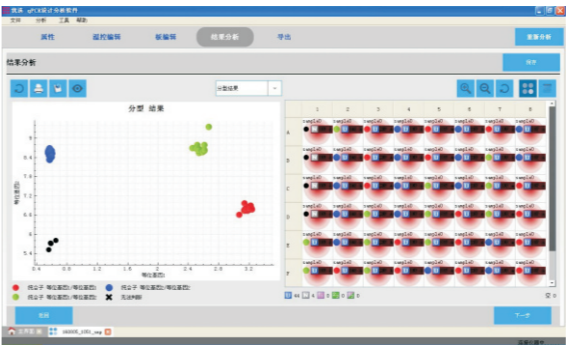


(2) Melt-curve to verify product identity

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

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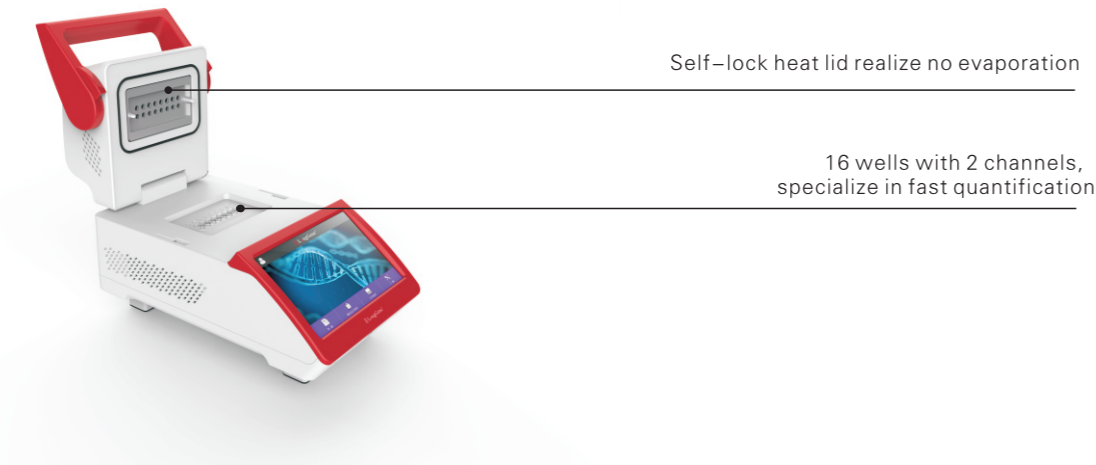
13. A variety of algorithms are included, such as auto-baseline, manual-baseline, auto-threshold, manual-threshold, amplification efficiency (E), able to streamline data analysis.

14. Export results to .xls, .txt.

Q160 Portable Mini Real-Time PCR Thermal Cycler



Top excitation and detection technology ensure white tubes could be used, which could get better results

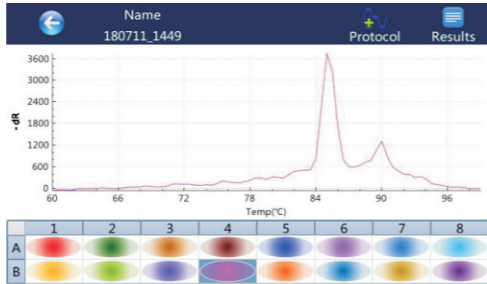
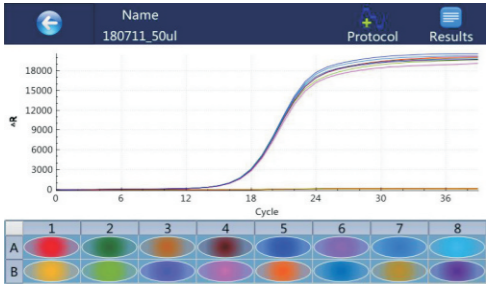


Self-lock heat lid realize no evaporation

16 wells with 2 channels, specialize in fast quantification

© Software Function

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



		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

		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 <sup>1</sup> ~ 10 <sup>10</sup>
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

T30 / T30D Tri-block Thermal Cycler

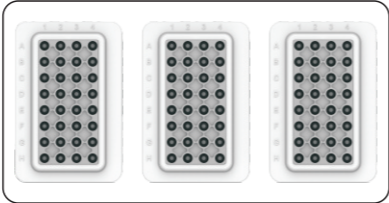
T30



3 individual sample blocks allow  
3 protocols running independently

10" TFT Full Color touch screen,  
with wide viewing angles

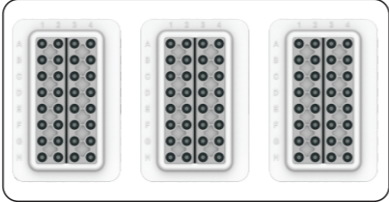
T30 Sample Block Layout



3 independent sample blocks,  
2 super gradient temperatures can be set for each block

10" TFT Full Color touch screen,  
with wide viewing angles

T30D Sample Block Layout



- ◎ 3 Individual sample blocks allows 3 protocols running independently different protocols to independently
- ◎ New generation Peltier technology, allowing 1,000,000 run cycles
- ◎ New generation Peltier technology, with ramping rate more than 7.5°C/sec
- ◎ New lever-style heat lid to lock up the lid pressure automatically, ensuring even pressure during running of protocol

Model	T30 ( Tri-Block Gradient )	T30D ( Tri-Block Super Gradient )
Sample Block	3 blocks 32 wells	3 blocks 2*16 wells
	0.2ml PCR tube with flat & dome cap	
Heating & Cooling Technology	New generation Peltier technology allow 1,000,000 cycles	
Display	10" Full Color Touch Screen with adjustable angle, and real-time graphical display	
Language	English	
USB flash drive Function	Unlimited storage of protocols with USB flash drive; Back up user's data	
Communication Ports	USB 2.0 & LAN	
TEMPERATURE		
Block Temp.Range	4℃~99.9℃	
Max. Heating Rate	7.5℃/s	
Max. Cooling Rate	6℃/s	
Temp.Uniformity	≤ ± 0.2℃ ( at 90℃ )	
Temp.Accuracy	≤ ± 0.2℃ ( at 90℃ )	
Display Resolution	0.1℃	
Ramping Rate Adjustable	0.1~5.0℃	
Mode of Temp.Control	Block & Sim-tube mode	
GRADIENT		
Gradient Accuracy	≤ ± 0.1℃	
Uniformity	Wells of Same Line Uniformity ≤ ± 0.2℃	16 Wells Uniformity ≤ ± 0.2℃
Gradient Range	30℃ ~ 99.9℃	
Temp. Differential Range	The Temp. difference is 1-25℃; the maximum Temp. difference up to 75℃ when integrating 3 blocks.	
Display of Gradient Temperature	Each individual block has 8 gradient temperatures	2-zone Temp. can be set independently for each individual block. better than traditional gradient function
SOFTWARE		
Max. Number of Programs	Max.15,000 programs onboard, unlimited storage of protocols with USB flash drive	
Max. Step	30 Steps, multiple nesting cycles available	
Max. Cycle	100 Typical Cycles (multiple nesting allows 10,000 cycles)	
Time Increment/decrement	1-120 sec, available for Long PCR	
Temp.Increment/decrement	0.1-10.0℃, available for Touchdown PCR	
Auto Pause & Auto Restart	Yes	
Hold at 4℃	A below ambient Temp. incubation allow PCR products storage overnight	
Program Wizard	Pre-program template make the editing very easy through modify several parameters.	
Running Report	Provide full review of perviously run protocols	
HEAT LID		
Lid Temp. Range	30℃ ~ 112℃	
Open Method	Innovative TOP-OPEN technology, with even pressure of heat lid	
Auto Shut-off	Lid will shut off automatically when the block Temp. falls below set Temp.	
OTHER FEATURES		
Power	Global switch power supply : 100V ~ 240V, 50-60Hz	
Consumption	750W	
Dimensions (L x W x H)	375×270×277mm	
Net Weight	13 KG	

T20 / T20D Dual-block Thermal Cycler

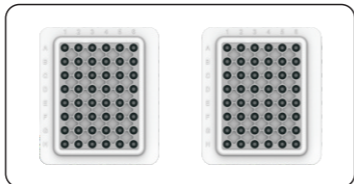
T20



2 individual sample blocks allow  
2 protocols running independently

10" TFT Full Color touch screen,  
with wide viewing angles

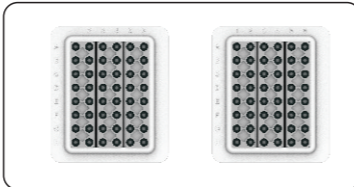
T20 Sample Block Layout



2 independent sample blocks,  
3 super gradient temperatures can be set for each block

10" TFT Full Color touch screen,  
with wide viewing angles

T20D Sample Block Layout



T20D

- ◎ 2 individual sample blocks allowing 3 different protocols to run at the same time
- ◎ New generation Peltier technology, allowing 1,000,000 run cycles
- ◎ New generation Peltier technology, with ramping rate more than 7.5°C/sec
- ◎ New lever-style heat lid to lock up the lid pressure automatically, ensuring even pressure during running of protocol

Model	T20 ( Dual-Block )		T20D ( Dual-Block Super Gradient )	
Sample Block	2 blocks 48 wells		2 blocks 3*16 wells	
	0.2ml PCR tube, strip with flat & dome cap			
Heating & Cooling Technology	New generation Peltier technology allow 1,000,000 cycles			
Display	10" Full Color Touch Screen with adjustable angle, and real-time graphical display			
Language	English			
USB flash drive Function	Unlimited storage of protocols with USB flash drive; Back-up user's data			
Communication Ports	USB 2.0 & LAN			
TEMPERATURE				
Block Temp.Range	4℃~99.9℃			
Max. Heating Rate	7.5℃/s			
Max. Cooling Rate	6℃/s			
Temp.Uniformity	≤ ± 0.2℃ ( at 90℃ )			
Temp.Accuracy	≤ ± 0.2℃ ( at 90℃ )			
Display Resolution	0.1℃			
Ramping Rate Adjustable	0.1~5.0℃			
Mode of Temp. Control	Block & Sim-tube mode			
GRADIENT				
Gradient Accuracy	≤ ± 0.1℃			
Uniformity	Wells of Same Line Uniformity ≤ ± 0.2℃		16 Wells Uniformity ≤ ± 0.2℃	
Gradient Range	30℃ ~ 99.9℃			
Temp. Differential Range	The Temp. difference is 1-25℃; the maximum Temp. difference up to 50℃ when integrating 2 blocks.			
Display of Gradient Temp.	Each individual block has 8 gradient Temp.		3-zone Temp. can be set independently for each individual block. better than traditional gradient function	
SOFTWARE				
Max. Number Of Programs	Max. 15,000 programs onboard, unlimited storage of protocols with USB flash drive			
Max. Step	30 Steps, multiple nesting cycles available			
Max. Cycle	100 Typical Cycles (multiple nesting allows 10,000 cycles)			
Time Increment/decrement	1-120 sec, available for Long PCR			
Temp.Increment/decrement	0.1-10.0℃, available for Touchdown PCR			
Auto Pause & Auto Restart	Yes			
Hold at 4℃	A below ambient Temp. incubation allow PCR products storage overnight			
Program Wizard	Pre-program template make the editing very easy through modify several parameters.			
Running Report	Provide full review of perviously run protocols			
HEAT LID				
Lid Temp.Range	30℃ ~ 112℃			
Open Method	Innovative TOP-OPEN technology, with even pressure of heat lid			
Auto Shut-off	Lid will shut off automatically when the block Temp. falls below set Temp.			
OTHER FEATURES				
Power	Global switch power supply : 100V ~ 240V, 50-60Hz			
Consumption	750W			
Dimensions (L x W x H)	375×270×277mm			
Net Weight	13 KG			

A600 Super Gradient Thermal Cycler

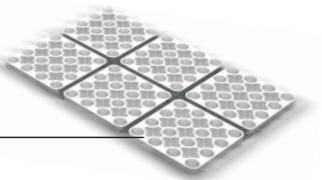


7" TFT Full Color Touch Screen,  
real-time graphical display

Front air-in & back air-out design,  
allowing two thermal cyclers be placed side by side



6 independent block  
to optimize primer pairs  
Max.temp. difference is 25°C  
between two adjacent zones



- ◎ Six different annealing temperatures for each block
- ◎ Better uniformity than traditional gradient cycler
- ◎ Max. temp. differential range 25°C between two adjacent block
- ◎ New generation peltier technology, with ramping rate at 5.5 °C/sec
- ◎ Download & upgrade LongGene software via flash drive

Model	A600
Sample Block	6 zones 4 × 4 wells × 0.2ml , 6 annealing temp. can be accurately set simultaneously
Tube Optional	0.2ml PCR tube/Strip, 96–well PCR plate
Heating & Cooling Technology	New generation Peltier technology allow 1,000,000 cycles
Display	7" Color Touch Screen, real–time graphical display
Language	English
USB flash drive Function	Unlimited storage of protocols with USB flash drive
Communication Ports	2 USB & 1 LAN
Venting System	Front air in & back air out, two thermal cyclers can be placed side by side
TEMPERATURE	
Block Temp. Range	0°C ~ 105°C
Max. Heating Rate	5.5°C/s
Max. Cooling Rate	4.5°C/s
Temp. Uniformity	≤ ± 0.15°C ( at 90°C )
Temp. Accuracy	≤ ± 0.15°C ( at 90°C )
Display Resolution	0.1°C
Ramping Rate Adjustable	0.1~4.0°C
Mode of Temp. Control	Sim–tube & Block mode
GRADIENT	
Gradient Accuracy	≤ ± 0.15°C ( at 90°C )
16 Wells Uniformity	≤ ± 0.2°C ( at 90°C )
Gradient Range	0°C ~ 105°C
Temp. Differential Range	1 ~ 25°C between two adjacent zones
Gradient Capability	Six temperatures can be set independently, better than traditional gradient function
HEAT LID	
Height of Heat Lid	Steplessly adjustable lid, accommodates PCR tubes, strips & plates
Lid Feature	Innovative "TOP–OPEN" technology, protection from over–pressure
Heat Lid Temp. Range	30°C ~ 112°C
Auto Shut–off	Lid will shut off automatically when the block Temp. falls below set Temp.
SOFTWARE	
Max. Number of Programs	Max. 15,000 programs onboard, unlimited storage of protocols with USB flash drive
Max. Step	30 Steps, multiple nesting cycles available
Max. Cycle	100 Typical Cycles, max. 10,000 nesting cycles
Time Increment/decrement	1–120 sec, available for Long PCR
Temp. Increment/decrement	0.1–10.0°C, available for Touchdown PCR
Auto Pause / Auto Restart	Yes
Multi–user Log In	With Password–based authentication to protect personal protocols
Tm Calculator	Automatically calculates the melting & annealing Temp. of a pair of primers
Hold at 4°C	A below ambient Temp. incubation allow PCR products storage overnight
Running Report	Provide detailed reports of previously run protocols
PC Connection	Remote PC control to manage multiple units across the LAN network
OTHER FEATURES	
Consumption	600w
Dimensions (L x W x H)	362 × 256 × 255mm
Net Weight	8 KG

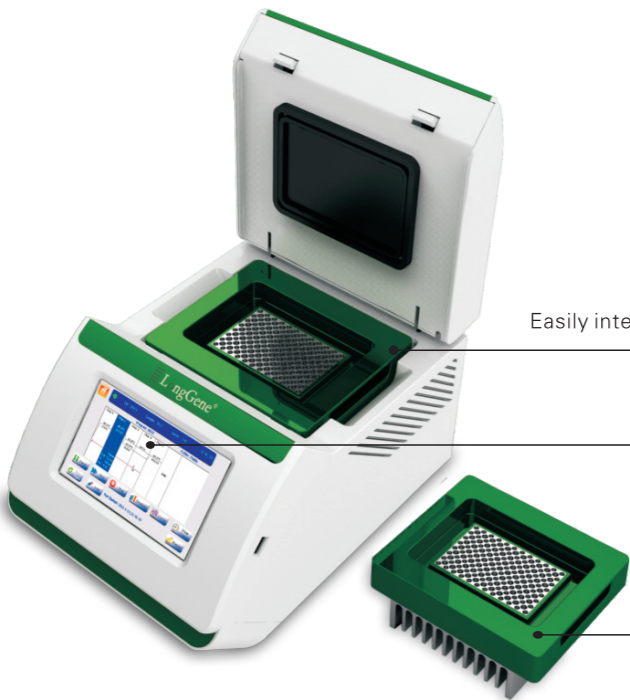
A300 Fast Gradient Thermal Cycler



Innovative lid designed ,  
patent protected

7" TFT full color touch screen

Front air-in and back air-out vents,  
two cyclers can be place side by side



Easily interchangeable blocks without need of tools

Real-time graphical display

Multiple blocks optional

- ◎ New generation Peltier technology, with ramping rate at 6°C/sec
- ◎ Core parts from famous supplier,ensure Temp. uniformity and accuracy
- ◎ English interface. A wealth of software features to enjoy
- ◎ Wide range of module options, easily interchangeable modules no tools required
- ◎ 15,000 on board protocol storage and unlimited storage with flash drive
- ◎ Global universal switch power (85V–265V, 50–60Hz)
- ◎ Innovative design, multiple patent protection

Model	A300
Optional Module	96 Module: 96 wells × 0.2ml 9677 Module: 96 wells × 0.2ml+77wells × 0.5ml Multi-purpose Module: 9677 Module + In-situ Adapter 384 Module: 384 wells
Heating & Cooling Technology	New generation Peltier technology allow 1,000,000 cycles
Display	7" Color Touch Screen, real-time graphical display
Language	English
USB flash drive Function	Unlimited storage of protocols with USB flash drive
Communication Ports	2 USB & 1 LAN
Venting System	Front air in & back air out, two cyclers can be placed side by side
TEMPERATURE	
Block Temp.Range	0°C ~ 105°C
Max. Heating Rate	6°C/s
Max. Cooling Rate	5°C/s
Temp.Uniformity	≤ ± 0.2°C
Temp.Accuracy	≤ ± 0.1°C
Display Resolution	0.1°C
Ramping Rate Adjustable	0.1~4.0°C
Mode of Temp.Control	Sim-tube & Block mode
GRADIENT	
Gradient Accuracy	≤ ± 0.1°C
Column Uniformity	≤ ± 0.2°C
Gradient Range	30°C ~ 99.9°C
Temp.Differential Range	Max. 30°C
Gradient Capability	12 Column
HEAT LID	
Height of Heat Lid	Steplessly adjustable lid, accommodates PCR tubes, strips & plates
Lid Feature	Innovative "TOP-OPEN" technology, protection from over-pressure
Heat Lid Temp.Range	30°C ~ 112°C
Auto Shut-off	Lid will shut off automatically when the block Temp. falls below set Temp.
SOFTWARE	
Max. Number of Programs	Max. 15,000 programs onboard, unlimited storage of protocols with USB flash drive
Max. Step	30 Steps, multiple nesting cycles available
Max. Cycle	100 Typical Cycles, max.10,000 nesting cycles
Time Increment/decrement	1–120 sec, available for Long PCR
Temp.Increment/decrement	0.1–10.0°C, available for Touchdown PCR
Auto Pause / Auto Restart	Yes
Multi-user Log In	With Password-based authentication to protect personal protocols
Tm Calculator	Automatically calculates the melting & annealing Temp. of a pair of primers
Hold at 4°C	A below ambient Temp. incubation allow PCR products storage overnight
Program Wizard	Pre-program templete make the editing very easy through modify several parameters.
Running Report	Provide detailed reports of previously run protocols
PC Connection	Remote PC control to manage multiple units across the LAN network
OTHER FEATURES	
Power	Global switch power supply : 85V ~ 265V, 50–60Hz
Consumption	600w
Dimensions (L x W x H)	362 × 256 × 255mm
Net Weight	7.3 KG

A200/A100 Classic Thermal Cycler



Innovative lid designed,  
patent protected

7" TFT full color touch screen

Front air-in and back air-out vents,  
two cyclers could be placed side by side



Easily interchangeable blocks without need of tools

Several blocks optional

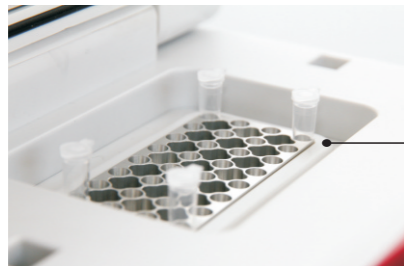
- ◎ 7" TFT color touch screen, real-time graphical display
- ◎ Outstanding block Temp.uniformity, always obtains best PCR results
- ◎ Effortlessly Interchangeable modules, no tools required
- ◎ 10,000 on board protocol storage and unlimited storage with flash drive
- ◎ Gradient and non-gradient functions are optional and cost-effective.
- ◎ Beautiful and Streamlined appearance, lightweight structure

Model	A100	A200
Optional Module	96 Module: 96 wells × 0.2ml 9677 Module: 96 wells × 0.2ml+77wells × 0.5ml Multi-purpose Module: 9677 Module + In-situ Adapter 384 Module: 384 wells	
Heating & Cooling Technology	New generation Peltier technology allow 1,000,000 cycles	
Display	7" Color Touch Screen, real-time graphical display	
Language	English	
USB flash drive Function	Unlimited storage of protocols with USB flash drive	
Communication Ports	2 USB & 1 LAN	
Venting System	Front air in & back air out, two thermal cyclers can be placed side by side	
TEMPERATURE		
Block Temp.Range	0℃ ~ 105℃	
Max. Heating Rate	5℃/s	
Max. Cooling Rate	5℃/s	
Temp.Uniformity	≤ ± 0.2℃	
Temp.Accuracy	≤ ± 0.1℃	
Display Resolution	0.1℃	
Ramping Rate Adjustable	0.1~4.0℃	
Mode of Temp.Control	Sim-tube & Block mode	
GRADIENT		
Gradient Accuracy	/	≤ ± 0.1℃
Column Uniformity	/	≤ ± 0.2℃
Gradient Range	/	30℃ ~ 99.9℃
Temp.Differential Range	/	Max. 30℃
Gradient Capability	/	12 Column
HEAT LID		
Height of Heat Lid	Steplessly adjustable lid, accommodates PCR tubes, strips & plates	
Lid Feature	Innovative "TOP-OPEN" technology, protection from over-pressure	
Heat Lid Temp.Range	30℃ ~ 112℃	
Auto Shut-off	Lid will shut off automatically when the block Temp. falls below set Temp.	
SOFTWARE		
Max. Number Of Programs	Max. 10,000 programs onboard, unlimited storage of protocols with USB flash drive	
Max. Step	30 Steps, multiple nesting cycles available	
Max. Cycle	10000	
Time Increment/decrement	1-120 sec, available for Long PCR	
Temp.ncrement/decrement	0.1-10.0℃, available for Touchdown PCR	
Auto Pause / Auto Restart	Yes	
Multi-user Log In	With Password-based authentication to protect personal protocols	
Tm Calculator	Automatically calculates the melting & annealing Temp. with two primer sequences	
Low Temp.sample storage.	Yes	
Program Wizard	Pre-program templete make the editing very easy through modify several parameters.	
Running Report	Provide detailed reports of previously run protocols	
Pc Connection	Remote PC control to manage multiple units across the LAN network	
OTHER FEATURES		
Power	Global switch power supply : 85V ~ 265V, 50-60Hz	
Consumption	600w	
Dimensions (L x W x H)	362 × 256 × 255mm	
Net Weight	7.3 KG	

Professional Mini Thermal Cycler



Lever-style heat lid,  
ensure even pressure for each tube



Unique 16/32 wells block,  
allow usage of strips



The World's First Mini Thermal cycler with 4.3"  
color touch screen

- ◎ Available in 16 and 32 wells sizes
- ◎ Fast ramping rate, up to 5°C/sec
- ◎ Superior Temp.uniformity, guaranteeing the same PCR results with 96-wells cyclers
- ◎ core parts from famous supplier, quality life is guaranteed
- ◎ Lightweight & powerful

Model	Mini1610		Mini3220	
Sample Block	16 wells*0.2ml		32 wells*0.2ml	
Tube Type	Accommodates 0.2 ml tubes or strip of 8 tubes			
Heating & Cooling Technology	New generation Peltier technology allow 1,000,000 cycles			
Display	4.3" TFT color touch screen			
Language	English			
Communication Port	1 USB port			
Venting System	Bottom air in & back air out out,two thermal cyclers can be placed side by side			
TEMPERATURE				
Block Temp.Range	0.1℃~99.9℃			
Max. Heating Rate	3℃/s		5℃/s	
Max. Cooling Rate	2℃/s		4℃/s	
Temp.Uniformity	≤ ± 0.25℃			
Temp.Accuracy	≤ ± 0.25℃			
Display Resolution	0.1℃			
Mode of Temp.Control	Sim-tube & Block mode			
Ramping Rate Adjustable	0.1~3.0℃			
Lid Open Method	New "TOP-OPEN" technology lift & open with just one action			
SOFTWARE				
Max. No. of Programs	≥ 100 user protocols on board			
Time Increment/Decrement	1-120 sec, available for Long PCR			
Temp. Increment/Decrement	0.1-9.9℃, available for Touchdown PCR			
Auto Pause / Auto Restart	Yes			
Hold at 4℃	A below ambient temerature incubation allow PCR products storage overnight			
Running Report	Provide detailed reports of previously run protocols			
OTHER FEATURES				
Power	Global switch power supply : 85V ~ 265V, 50-60Hz			
Power Consmption	Max. 160W			
Approvals	ISO 9001:2000, CE			
Dimension ( L×W×H )	232×182×157mm			
Net Weight	2.9 KG			

Dry Bath Incubator



Description

ByGene™ series Dry Bath Incubator is a microcomputer controlled Heating & Cooling Plate, which is designed to accommodate an assortment of interchangeable Block. There are three models of Heating, Cooling & Mixing, whose wide applications include sample storage and reaction of various kinds of enzyme, heat treatment of nucleic acid & protein, PCR reaction and pre-denaturatoin, pre-denaturation before electrophoresis, serum solidification, etc. Model BG25 & BG100 adopts advanced Peltier based technology, Model BG100 & Bg200 shaking Dry Bath Incubator makes heating & cooling with mixing perfectly with brushless DC motor.

Model	BG25	BG100	BG200	BG32
Technology	Peltier-based	Peltier-based	Peltier-based	Peltier-based
Temp.Conteol Range	-10℃~100℃	0℃~100℃	Room Temp. +5℃~100° C	Room Temp. +5℃~100° C
Heating Time	≤15min	<15min	<15min	≤25min
Cooling Time	≤30min (20℃~ -5℃)	≤25min (25℃~ 100℃ )	/	/
Temp.Control Accuracy(@40℃~100℃ )	± 0.3℃	± 0.3℃	± 0.3℃	± 0.3℃
Temp.Stability(@100s℃ )	± 0.3℃	± 0.3℃	± 0.3℃	± 0.3℃
Block Temp.Uniformity	± 0.3℃	± 0.3℃	± 0.3℃	± 0.3℃
Display Resolution	0.1℃	0.1℃	0.1℃	0.1℃
Temp.Bias Calibration Function	yes	yes	yes	yes
Timing Range	0min ~ 99h59min	0min ~ 99h59min	0min ~ 99h59min	0min ~ 99h59min
Max.Power	150W	200W	150W	150W
Mixing Speed	/	200rpm –1500rpm	200rpm –1500rpm	/
Mixing Orbit	/	2mm ( Horizontal )	2mm ( Horizontal )	/
Optional Block Model	A. 20wells × 0.5ml+15wells × 1.5ml tube C. 54wells × 0.5ml tube E. 35wells × 2.0ml tube G.12wells × 15ml tube		A.96wells × 0.2ml Standard edition B.24wells × 5ml tube C.24wells × Φ 12mm tube D.6wells × 50ml	A.96wells × 0.2m B.24wells × 0.5ml+30wells × 1.5ml C.58wells × 0.5ml D.39wells × 1.5ml E.39wells × 2.0ml
Certificate	CE			CE

Mini Centrifuge

- ◎ Beautiful appearance, small and exquisite
- ◎ Professional low noise technology
- ◎ The outer cover is made of composite material, and the rotor stops when the lid is opened
- ◎ the sample flying out or personal injury, which is safe & reliable
- ◎ Miniature brushless, maintenance-free DC motor ensures long life
- ◎ Three rotors & two kinds of casings are rand only arranged, and one machine can be used for multiple purposes.



Model	CK-6
Relative centrifuge force	2000g
Sample capacity	8 × 2.0ml/1.5ml/0.5ml/0.2ml centrifuge tube (with 0.5ml and 0.2ml centrifuge tube) 2 × 0.8 × 0.2mPCR centrifugal tube
Speed of rotation	6000rpm
Timing Range	0~99m59s
Maximum noise	≤45db
Dimensions ( L×W×H )	176 × 160 × 121mm
Net Weight	≤1.5KG
Power	220V/110V 50~60HZ