

MANUFACTURER
for PCR THERMAL CYCLER
& REAL TIME qPCR SYSTEM

HANGZHOU LONGGENE SCIENTIFIC INSTRUMENT CO., LTD.

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LongGene
Scientific Instruments

<http://en.longgene.com/>



COMPANY PROFILE

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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 and qPCR system 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 22 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, In 2021, all models of Q series real-time qPCR system got CE-IVD certified, making them to be the most reliable and trustworthy products on the market.

HONORARY CERTIFICATE



LONG TERM CO-OPERATION WITH PREMIUM SUPPLIERS



World TOP manufacturer of Peltier Elements



The world-known provider of electronic components



The world-known provider of electronic components



The world's top manufacturer of industrial switching power supply



The world's largest manufacturer of LCD display

DEVELOPMENT HISTORY

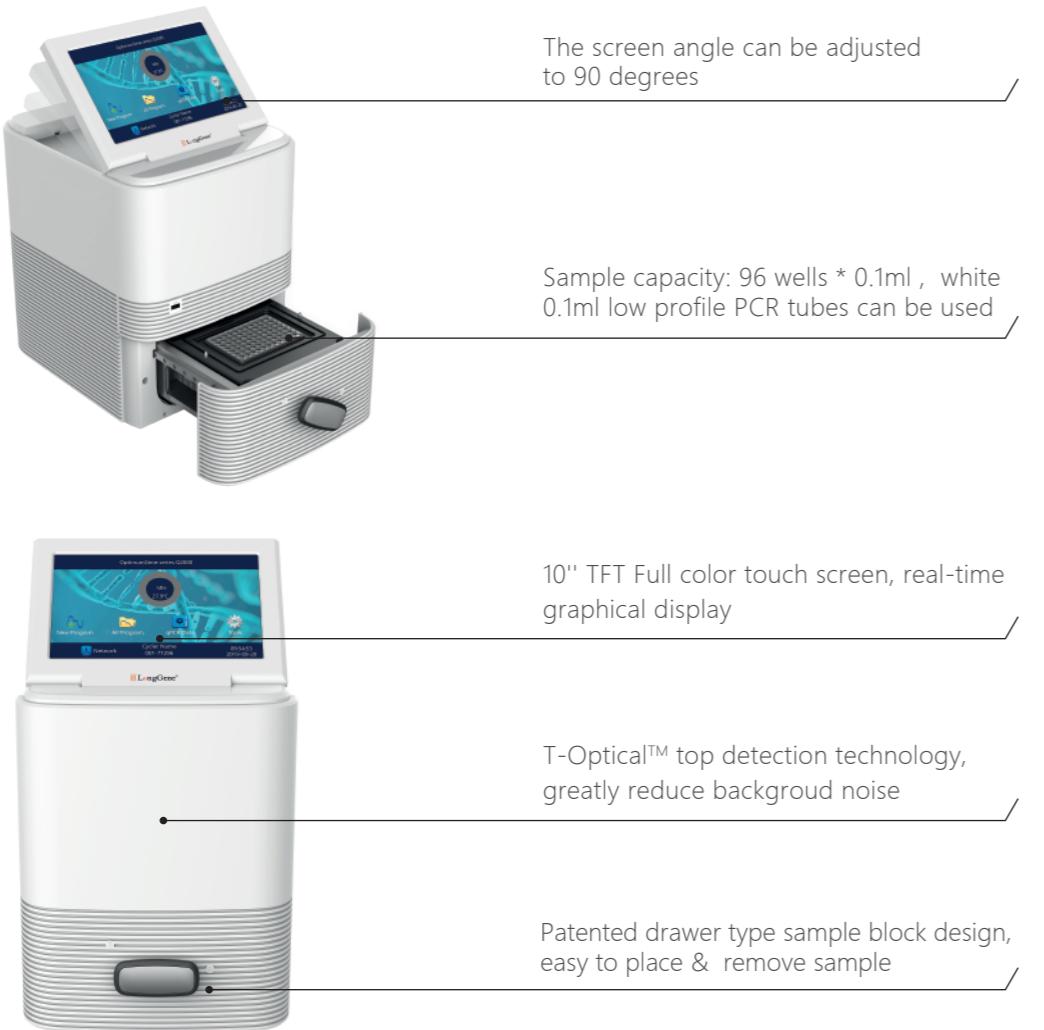
- 2022** T series multi-block thermal cycler has a new model T10/T10D.
- 2021** All models of Q series Real-time qPCR system passed CE-IVD test and obtained certificates. Portable Real-time qPCR system model Q160C was officially launched, providing more and better options for virus detection.
- 2020** High-throughput Real-time qPCR system Q2000 series have been completed to three models, and been exported to more than 30 countries overseas, providing high-quality and reliable testing equipment for the global fight against COVID-19.
- 2019** Q1000+ Real-time qPCR system was launched to the market. Portable Real-time qPCR system model Q160 was successfully launched, and play an important role in African swine fever virus market.
- 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 qPCR 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** Lseries 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.

OptimumGene™ series

Q2000 series

Real-Time qPCR System

- 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
- In addition, multiple control software can be selected to control multiple instruments with one computer



Model	Q2000A	Q2000B	Q2000C
Sample Block Capacity		96wells * 0.1ml	
Reaction Volume		10-50ul (recommend 20ul)	
Tubes Option	0.1ml white low profile qPCR tube, strips, 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		
Optical system	Innovative SSLP™ CCD imaging technology		
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		
PC Connection(Extra Option)	Remote PC control to manage 30 units across the LAN network		

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 (at 90°C)
Display Resolution	0.1°C
Heat Lid Temp. Range	30°C~112°C
Gradient Range	30°C ~ 105°C
Temp.Differential Range	0.1°C ~ 42°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/TET* (★Customizable) F3: ROX/TEXAS-RED/TAMRA* (★Customizable) F4: CY5/Quasar670 F5: CY5.5 F6: Reservel
Fluorescence Excitation Range	300~800nm
Fluorescence Detection Range	500~800nm
Data Export Formats	TXT, PDF, WORD, EXCEL

Other Features	
AC Power Supply	100 ~ 240V, 50 ~ 60Hz
Consumption	600W
Communications	USB 2.0 & LAN
Dimension (L × W × H)	334×280×365mm
Net Weight	13kg
Computer Operating Systems	Windows 10, Windows 7, Windows XP
Language	English

Optimal Design & Analysis Software

Q2000 series

Real-Time qPCR 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)

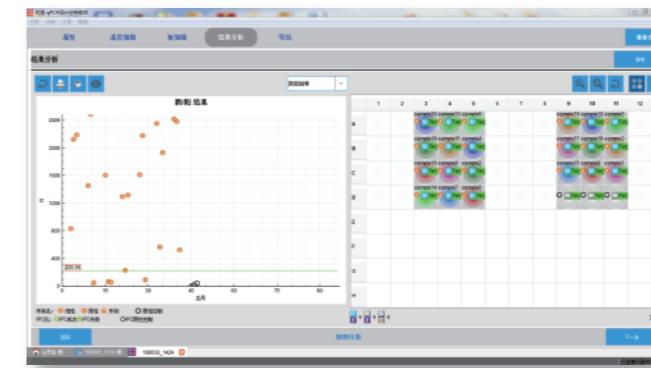
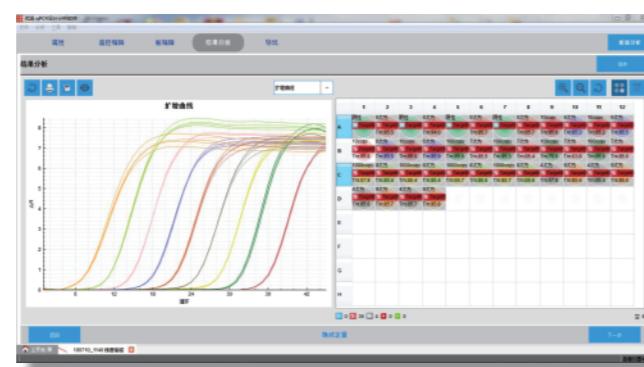
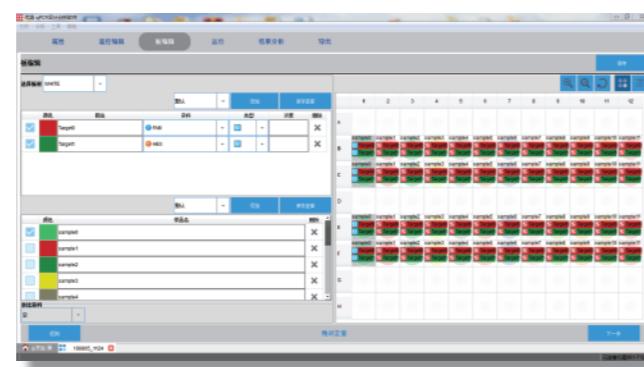
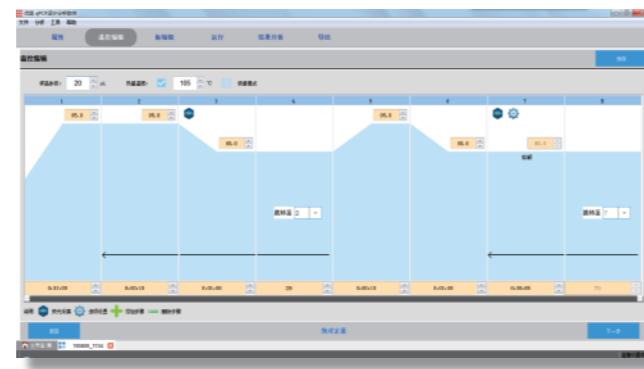
7. Real-time monitoring of amplification curve or melt curve via the 10" display and touch screen

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 TXT/ PDF/ WORD/ EXCEL

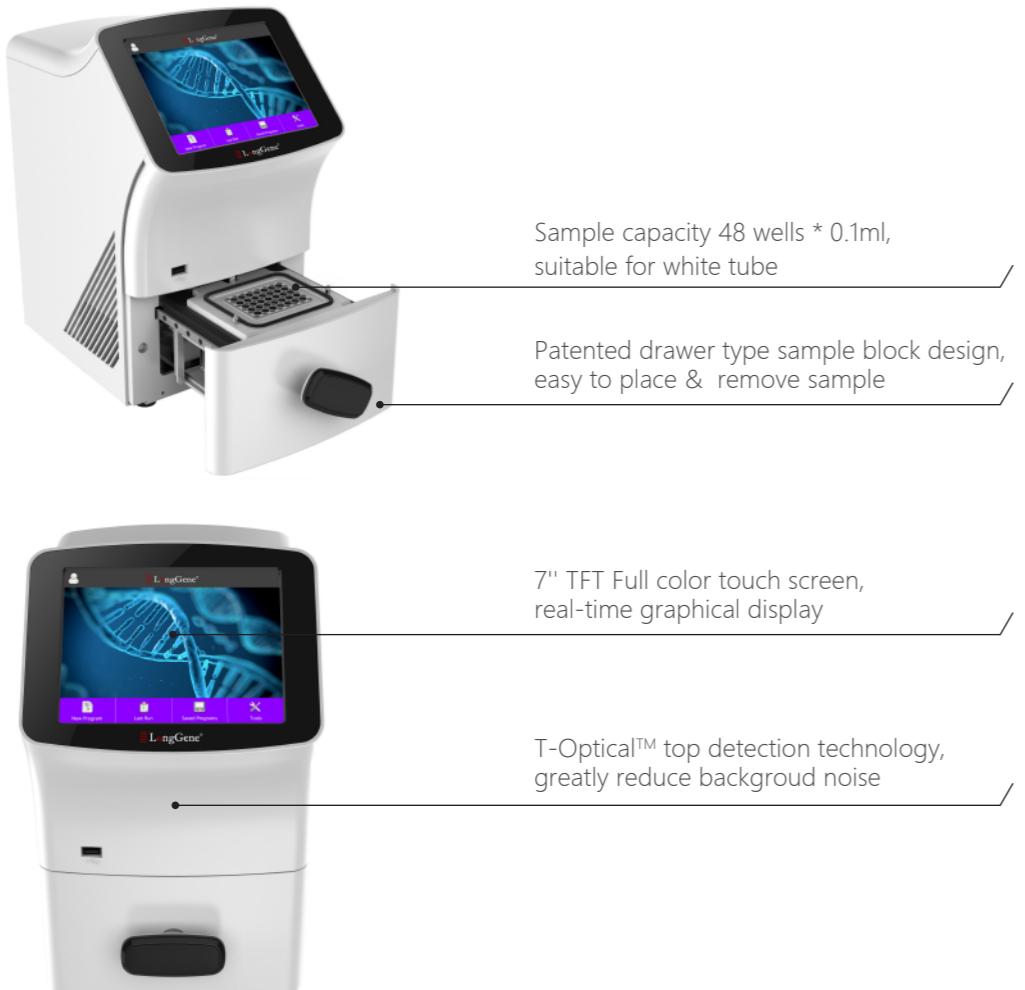
15. Multi control software can be selected, that is, a computer can control up to 30 units Q2000 series qPCR system

OptimumGene™ series

Q1000 series

Real-Time qPCR System

- 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
- 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
- In addition, multiple control software can be selected to control multiple instruments with one computer



Model	Q1000	Q1000+
Sample Block Capacity		48 wells * 0.1ml
Reaction Volume	10-50ul (recommend 20ul)	
Tubes Option	White 0.1ml PCR tube, 8 Strips, with optical flat cover	
Heating & Cooling Technology	New generation Peltier technology allow 1,000,000 cycles	
Control Methods	Operated via PC or self-contained touch screen on instrument	
Optical system	Innovative SSLP™ CCD imaging technology	
Display	7" Color TFT LCD and Touch Screen	
Max. Number of Programs	Max.15,000 programs onboard, unlimited storage of protocols with USB flash drive	
PC Connection(Extra Option)	Remote PC control to manage 30 units by the LAN network	

	TEMPERATURE
Block Temp.Range	0°C~105°C
Max. Heating Rate	7°C/sec
Max. Cooling Rate	5°C/sec
Temp.Uniformity	≤±0.2°C (at 90°C)
Temp.Accuracy	≤±0.1°C (at 90°C)
Display Resolution	0.1°C
Heat Lid Temp. Range	30°C ~ 112°C
Gradient Range	30°C~100°C
Temp.Differential Range	1°C~24°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/TET [*] (★Customizable) F3: ROX/TEXAS-RED/TAMRA [*] (★Customizable) F4: CY5/Quasar670
Fluorescence Excitation Range	300~800nm
Fluorescence Detection Range	500~800nm
Data Export Formats	TXT, PDF, WORD, EXCEL

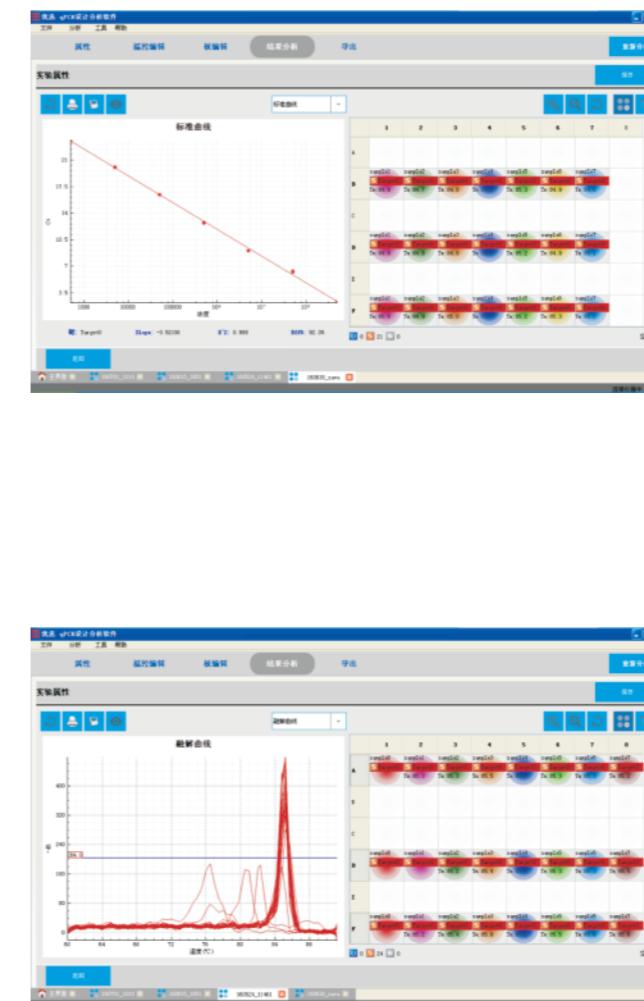
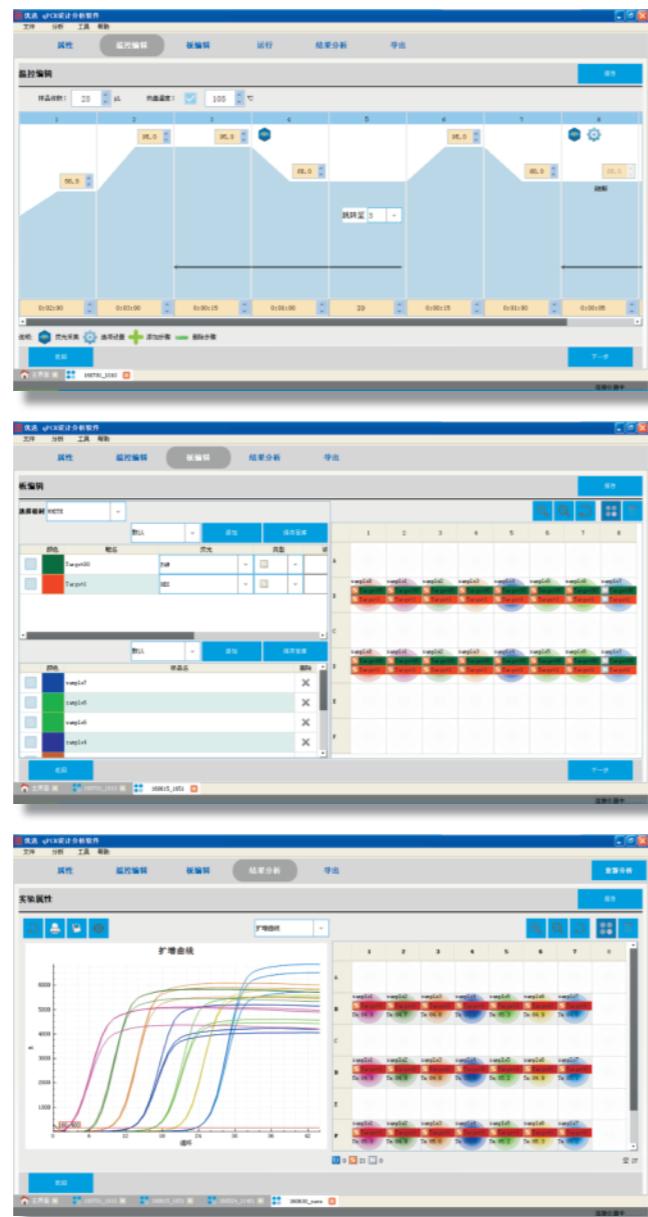
	OTHER FEATURES
AC Power Supply	100-240V, 50-60Hz
Consumption	400W
Communications	USB 2.0 & LAN
Dimension (L × W × H)	320×205×380mm
Net Weight	8.2Kg
Computer Operating Systems	Windows 10, Windows 7, Windows XP
Language	English

Optimal™ qPCR design & Analysis software

Q1000 series

Real-Time qPCR 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 7" display and touch screen
8. Intuitive qPCR plate setup
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

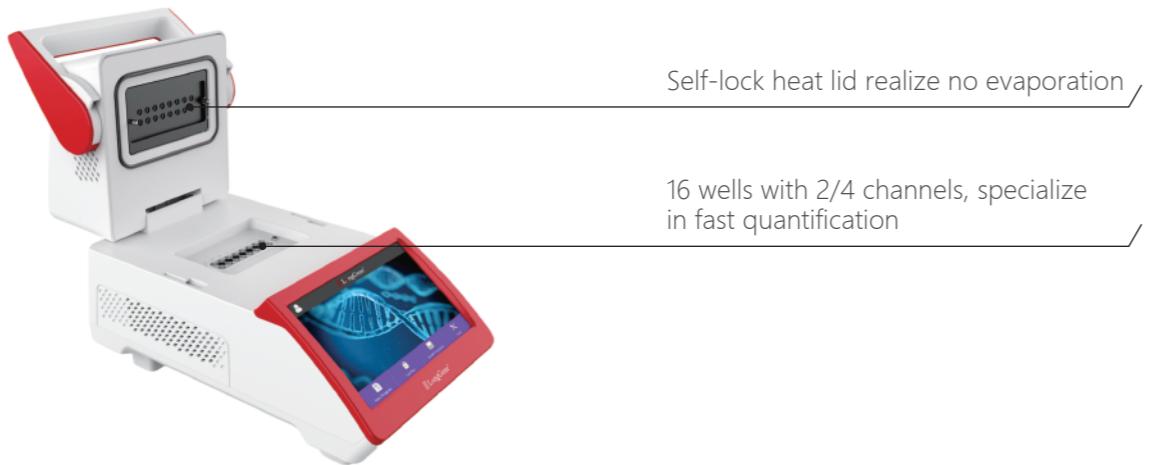
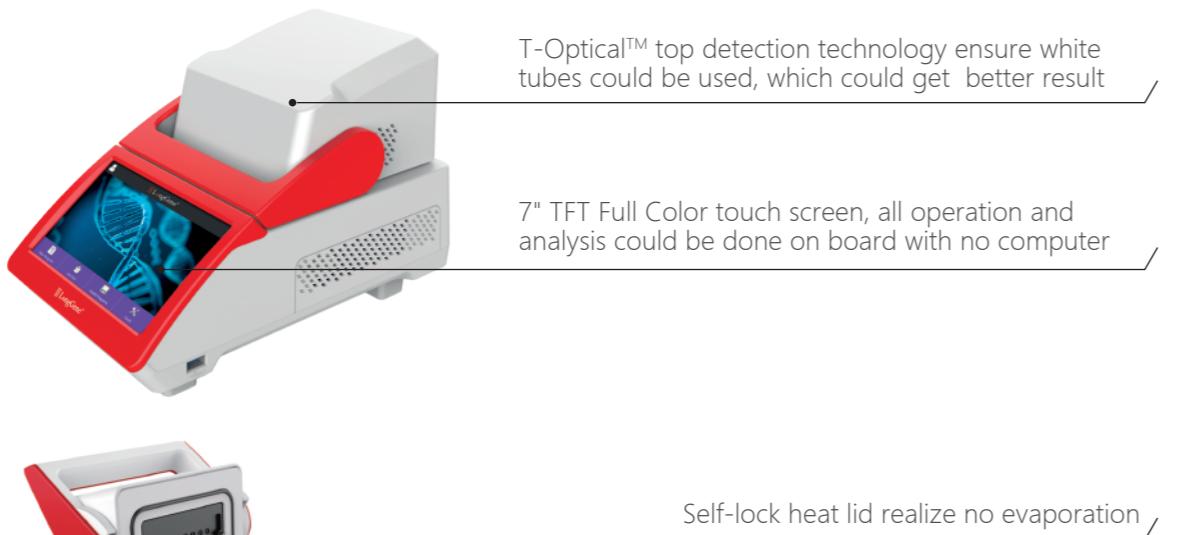


12. Varieties of Data Analysis Methods are included. (1) Standard curves for absolute quantification
- (2) Melt-curve to verify product identity
- (3) Relative quantification for gene expression analysis, with multiple reference genes & amplification efficiency correction
- (4) Allelic discrimination (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 TXT/PDF/WORD/EXCEL
15. Multi control software can be selected, that is, a computer can control up to 30 units Q1000 series qPCR system

OptimumGene™ series

Q160/Q160C series

Portable Real-Time qPCR System



Model	Q160	Q160C
Sample Block Capacity	16 wells * 0.1ml	
Reaction Volume	10-100ul	
Tubes Option	Low-profile white 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	
Optical system	SSLPTM CCD imaging technology	
Display	7" Color TFT Touch Screen, Edit, run and view results at a glance	
PC Connection(Extra Option)	Remote PC control to manage no more than 30 units units across the LAN network	

	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	≤±0.1°C (10 seconds after reach 90°C)
Display Resolution	0.1°C
Heat Lid Temp.Range	30°C ~ 112°C

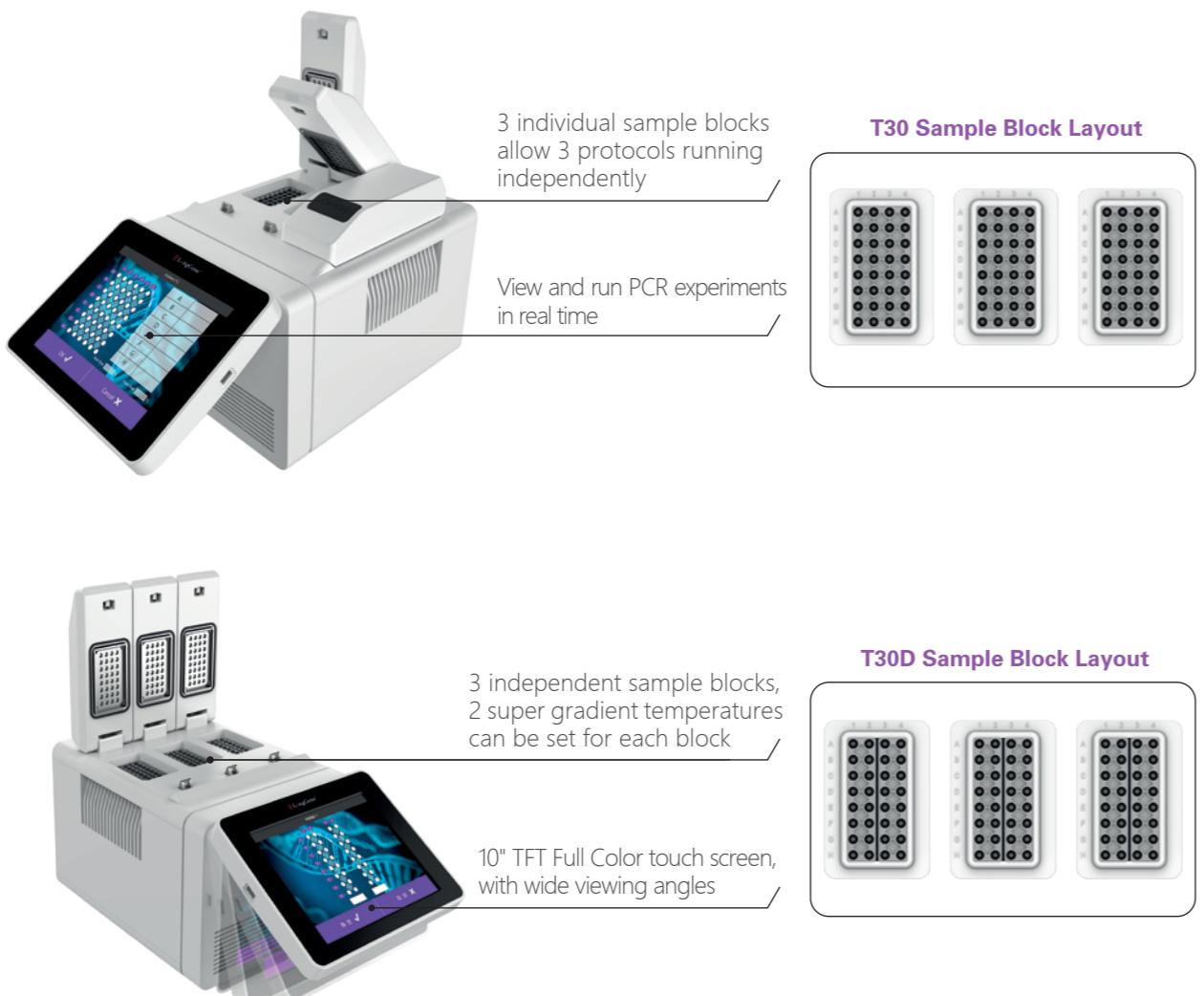
	OPTICAL MODULE
Excitation	Long life LEDs
Detection	CCDs
Dynamic Range	1-10 ¹⁰
Detection Sensitivity	Detects 1 copy
Calibrated Dyes at Installation	F1: FAM/SYBR Green F2: VIC/HEX/JOE/CY3/TET* (★Customizable) F3: ROX/TEXAS-RED/TAMRA* (★Customizable) F4: CY5/Quasar670
Fluorescence Excitation Range	300~800nm
Fluorescence Detection Range	500~800nm
Data Export Formats	TXT, PDF, WORD, EXCEL

	OTHER FEATURES
Power Supply	100-240V, 50-60Hz
Consumption	160W
Communication Ports	以USB 2.0 & LAN, export data via USB flash drive
Dimensions (L x W x H)	305x179x186mm
Net Weight	3.6kg
Language	English

TalentGene™ series

T30/T30D Tri-block Thermal Cycler

- 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 0.2ml PCR tube with flat & dome cap	3 blocks 2*16 wells
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	0°C~105°C	
Max. Heating Rate	7.5°C/s	
Max. Cooling Rate	6°C/s	
Temp. Uniformity	≤±0.2°C (at 90°C)	
Temp. Accuracy	≤±0.1°C (at 90°C)	
Display Resolution	0.1°C	
Ramping Rate Adjustable	0.1~5°C/s	
GRADIENT		
Gradient Accuracy	≤±0.1°C	
Uniformity	≤±0.2°C	
Gradient Range	30°C~105°C	
Temp. Differential Range	1°C~25°C	The Temp. difference is 0.1-25°C
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	1-600 sec, available for Long PCR	
Temp.Increment/decrement	0.1-10°C, available for Touchdown PCR	
Auto Pause & Auto Restart	Yes	
Multi-user log in	Password-based authentication protect personal PCR protocols	
Hold at 4°C	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 previously run protocols	
PC Connection(Extra Option)	Remote PC control to manage no more than 50 units across the LAN network	
HEAT LID		
Lid Temp. Range	30°C~112°C	
Open Method	Innovative TOP-OPEN TM technology, with even pressure of heat lid	
Auto Shut-Off	Lid will shut off automatically when protocol finish or the block Temp. falls below set Temp.	
Other Features		
Power Supply	100V ~ 240V, 50-60Hz	
Consumption	750W	
Dimension (L×W×H)	375×270×277mm	
Net Weight	13KG	

TalentGene™ series

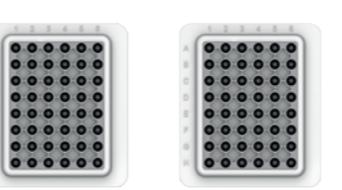
T20/T20D Dual-block Thermal Cycler

- 2 individual sample blocks allowing 2 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



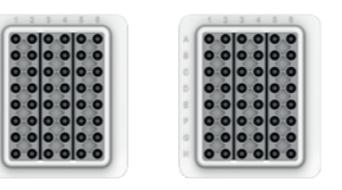
2 individual sample blocks allow
2 protocols running independently
View and run PCR experiments
in real time

T20 Sample Block Layout



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

T20D Sample Block Layout

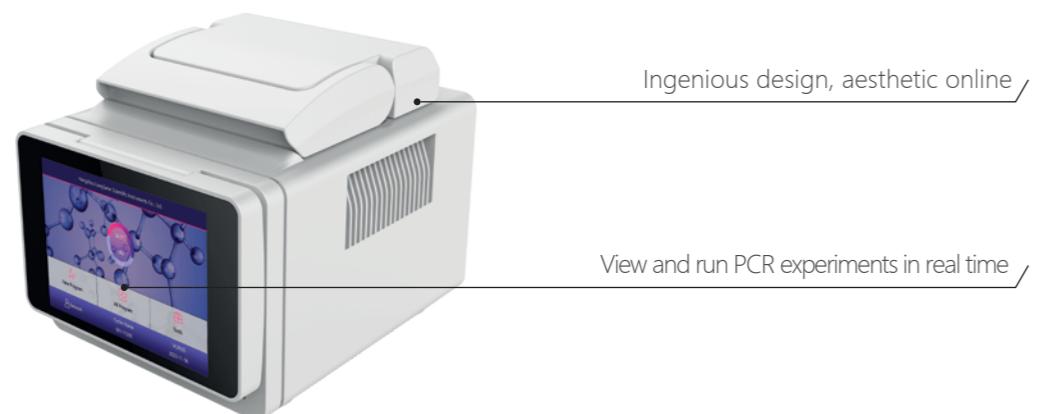


Model	T20 (Dual-Block Gradient)	T20D (Dual-Block Super Gradient)
Sample Block	2 blocks 48 wells 0.2ml PCR tube, strip with flat & dome cap	2 blocks 3*16 wells
Heating & Cooling Technology	New generation Peltier technology allow 1,000,000 cycles	
Display	10" Full Color Touch Screen with adjustable angle, 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	0°C~105°C	
Max. Heating Rate	7.5°C/s	
Max. Cooling Rate	6°C/s	
Temp.Uniformity	$\leq 0.2^\circ\text{C}$ (at 90°C)	
Temp.Accuracy	$\leq 0.1^\circ\text{C}$ (at 90°C)	
Display Resolution	0.1°C	
Ramping Rate Adjustable	0.1°C~5°C/s	
GRADIENT		
Gradient Accuracy	$\leq 0.1^\circ\text{C}$	
Uniformity	$\leq 0.2^\circ\text{C}$	
Gradient Range	30°C ~ 105°C	
Temp. Differential Range	1°C ~ 25°C	The Temp.difference is 0.1-25°C
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 Protocols	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	1-600 sec, available for Long PCR	
Temp.Increment/decrement	0.1-10°C, available for Touchdown PCR	
Auto Pause & Auto Restart	Yes	
Multi-user log in	Password-based authentication protect personal PCR protocols	
Hold at 4°C	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 previously run protocols	
PC Connection(Extra Option)	Remote PC control to manage no more than 50 units across the LAN network	
HEAT LID		
Lid Temp.Range	30°C ~ 112°C	
Auto Shut-off	Lid will shut off automatically when protocol finish or the block Temp. falls below set Temp.	
Open Method	Innovative TOP-OPEN technology, with even pressure of heat lid	
OTHER FEATURES		
Power Supply	100V ~ 240V, 50-60Hz	
Consumption	750W	
Dimension (L x W x H)	375x270x277mm	
Net Weight	13KG	

TalentGene™ series

T10 series 2D Gradient Thermal Cycler

- Innovative Peltier Technology, Max. Ramping Rate up to 9°C/sec.
- 2D Gradient Function, Perfect Optimization for Two PCR Temperatures.
- Adjustable 10" Touch Screen to Meet various Angle Requirements.

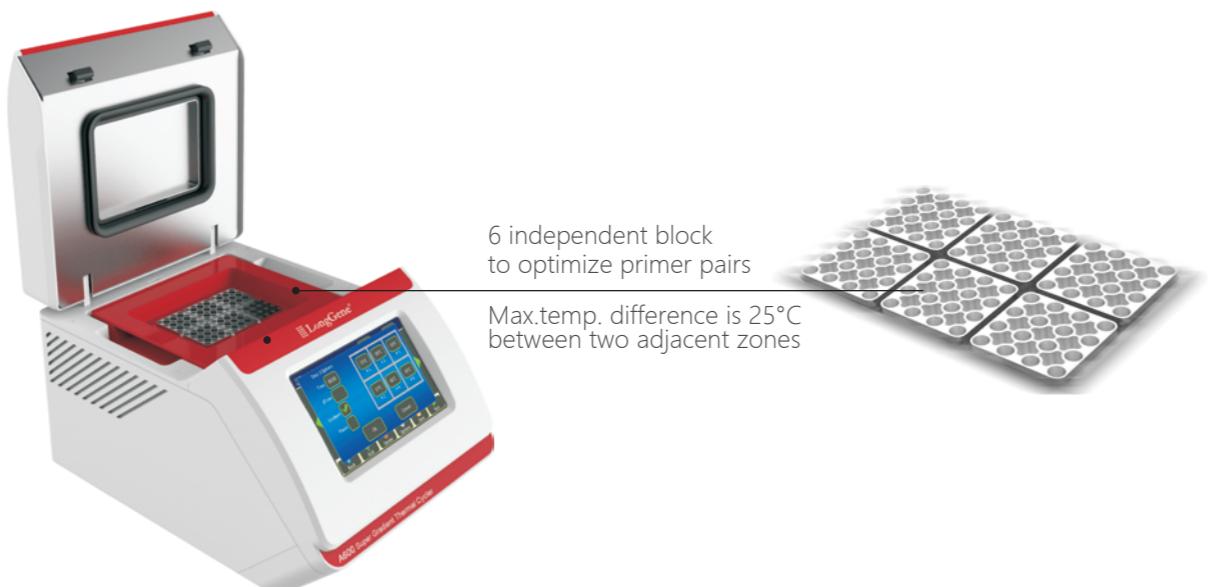
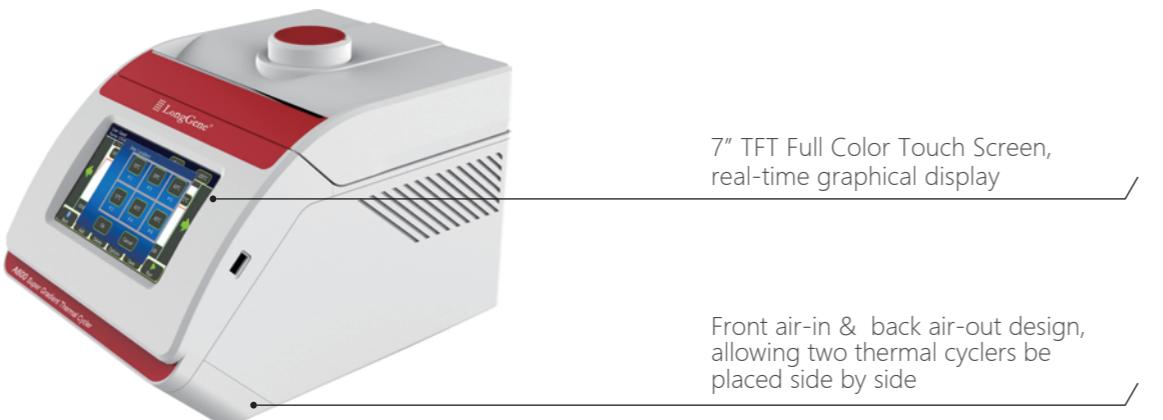


Model	T10A	T10B	T10C	T10S
Sample Block		96 wells*0.2ml/0.1ml		
	0.2ml or 0.1ml PCR tube, 8-tube strips, 96-well plate adoptable			
Heating & Cooling Technology		New generation Peltier technology allows 1,000,000 cycles		
Display	10" Full color touch screen with adjustable angle, real-time graphical display			
Language	English			
USB flash drive Function	Unlimited storage of protocols with USB flash drive			
Communication Ports	USB2.0, LAN or WIFI			
TEMPERATURE				
Block Temp. Range		0°C~105°C		
Max. Heating Rate	5°C/s	6°C/s	8°C/s	9°C/s
Max. Cooling Rate	4°C/s	5°C/s	6°C/s	6°C/s
Temp. Uniformity		≤±0.2°C		
Display Resolution	0.1°C			
Ramping Rate Adjustable	Yes			
Idle Block Temp. Settable	Yes			
GRADIENT				
Temperature Accuracy		≤±0.1°C		
Gradient Range	30°C ~ 105°C			
Temp. Differential Range	0.1 °C ~ 42 °C			Horizontal 0.1°C~42°C (2D) Vertical 0.1°C~24°C
SOFTWARE				
Max. Number of Programs	Max.30,000 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	1-600 sec, available for Long PCR			
Temp.Increment/decrement	0.1-10°C, available for Touchdown PCR			
Auto Pause & Auto Restart	Yes			
Hold at 4°C	Yes			
Program Wizard	Pre-program template make the editing very easy through modify several parameters			
Running Report	Provide full review of previous running protocols			
HEAT LID				
Lid Temp. Range		30°C ~ 112°C		
Idle Lid Temp	Yes			
Auto Shut-Off	Lid will shut off automatically when protocol finish or the block Temp. falls below the setting temperature			
Open Method	Innovative technology, prevent from overpressure of heat lid			
OTHER FEATURES				
Power Supply	100V ~ 240V, 50-60Hz			
Consumption	600W		1200W	
Dimension (L × W × H)	375×270×277mm			
Net Weight	10.8KG		12.8KG	
Certificate	ISO13485:2016, ISO9001:2015, CE			

ArtGene™ series

A600 Super Gradient Thermal Cycler

- 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

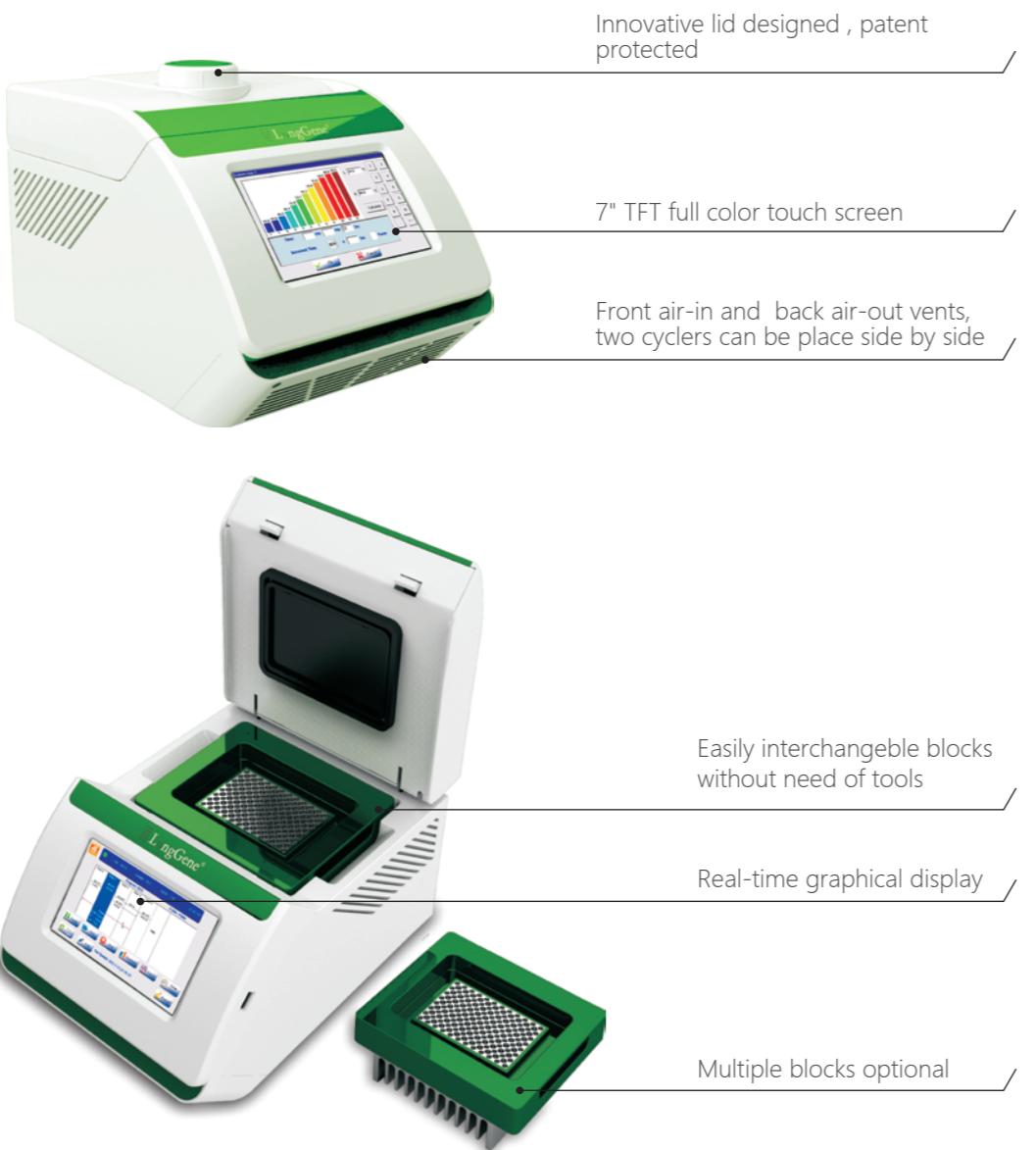


Model		A600
Sample Block	6 zones 4 x 4 wells x0.2ml , 6 annealing temp. can be accurately set simultaneously	
Tube Optional	0.2ml PCR tube/Strip, 96-well PCR plate	
Heating & Cooling Technology	New generation Peltier technology allow 1,000,000 cycles	
Display	7" Color Touch Screen, real-time graphical 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	≤±0.1°C (at 90°C)	
Display Resolution	0.1°C	
Ramping Rate Adjustable	0.1°C~4°C/s	
GRADIENT		
16 Wells Uniformity	≤±0.2°C (at 90°C)	
Gradient Accuracy	≤±0.15°C (at 90°C)	
Gradient Range	0°C~105°C	
Temp.Differential Range	0.1~ 25°C between two adjacent zones	
Gradient Capability	Six temperatures can be set independently, 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, max.10,000 nesting cycles	
Time Increment/decrement	1-600 sec, available for Long PCR	
Temp.Increment/decrement	0.1-10°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	
Real time temperature control curve record	Real time display of temperature change of hot cover and sample in operation	
Running Report	Provide detailed reports of previously run protocols	
PC Connection (Extra Option)	Remote PC control to manage 50 units by LAN network	
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 protocol finish or the block Temp. falls below set Temp.	
OTHER FEATURES		
Power Supply	100V ~ 240V, 50-60Hz	
Consumption	600W	
Dimension (L x W x H)	362x256x255mm	
Net Weight	7.3KG	

ArtGene™ series

A300 Fast Gradient Thermal Cycler

- 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 supply (100V-240V, 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 384 Module : 384 wells Multi-purpose Module: 9677 Module + In-situ Adapter In-situ Module: Flat-surface Block
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 (at 90°C)
Temp. Accuracy	≤±0.1°C (at 90°C)
Display Resolution	0.1°C
Ramping Rate Adjustable	0.1°C~4°C/s
	GRADIENT
Gradient Accuracy	≤ ±0.1°C
Column Uniformity	≤±0.2°C
Gradient Range	30°C ~ 105°C
Temp.Differential Range	1°C ~ 40°C
Gradient Capability	12 Column
	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	1-600 sec, available for Long PCR
Temp.Increment/decrement	0.1-10°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 allows PCR products storage overnight
Real time temperature control curve record	Real time display of temperature change of hot cover and sample in operation
Running Report	Provide detailed reports of previously run protocols
PC Connection (Extra Option)	Remote PC control to manage 50 units by LAN network
	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 protocol finish or the block Temp. falls below set Temp.
	OTHER FEATURES
Power Supply	100V ~ 240V, 50-60Hz
Consumption	600W
Dimension (L x W x H)	362×256×255mm
Net Weight	7.3KG

ArtGene™ series

A100/A200

Classic Thermal Cycler

- 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	9677 Module : 96 wells×0.2ml+77wells×0.5ml 96 Module : 96 wells×0.2ml 384 Module : 384 wells Multi-purpose Module : 9677 Module + In-situ Adapter	
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	5°C/s	
Max. Cooling Rate	4°C/s	
Temp.Uniformity	≤±0.2°C (at 90°C)	
Temp.Accuracy	≤±0.1°C (at 90°C)	
Display Resolution	0.1°C	
Ramping Rate Adjustable	0.1°C~4°C/s	
	GRADIENT	
Gradient Accuracy	/	≤ ±0.1°C
Column Uniformity	/	≤±0.2°C
Gradient Range	/	30°C ~ 105°C
Temp.Differential Range	/	1°C ~ 40°C
Gradient Capability	/	12 Column
	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	100 Typical Cycles, max.10,000 nesting cycles	
Time Increment/decrement	1 ~ 600 sec, available for Long PCR	
Temp.Increment/decrement	0.1 ~ 10°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	
Real time temperature control curve record	Real time display of temperature change of hot cover and sample in operation	
Running Report	Provide detailed reports of previously run protocols	
PC Connection (Extra Option)	Remote PC control to manage 50 units by LAN network	
	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 protocol finish or the block Temp. falls below set Temp.	
	OTHER FEATURES	
Power Supply	100V ~ 240V, 50~60Hz	
Consumption	600W	
Dimension (L×W×H)	362×256×255mm	
Net Weight	7.3KG	

MiniGene™ series

Mini3210/3220

Mini Thermal Cycler

- Fast ramping rate, up to 5°C/sec
- Superior Temp. uniformity, guarantee the same results from 32 wells
- Core parts from famous supplier, long life is guaranteed
- Lightweight & professional



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



Unique 32 wells block, allow usage of strips



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

Model	Mini3210	Mini3220
Sample Block	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	USB2.0	
Venting System	Bottom air in & back air out out,two thermal cyclers can be placed side by side	

TEMPERATURE		
Block Temp.Range	0.1°C~99.9°C	
Max. Heating Rate	3 °C/s	5 °C/s
Max. Cooling Rate	2 °C/s	4 °C/s
Temp.Uniformity	≤±0.25°C(at 90°C)	
Temp.Accuracy	≤±0.25°C(at 90°C)	
Display Resolution	0.1°C	
Ramping Rate Adjustable	0.1°C~3°C/s	
Lid Open Method	New "TOP-OPEN" technology lift & open with just one action	

SOFTWARE	
Max. No. of Programs	≥ 100 protocols on board
Time Increment/Decrement	1~120 sec, available for Long PCR
Temp. Increment/Decrement	0.1~9.9°C, available for Touchdown PCR
Auto Pause / Auto Restart	Yes
Hold at 4°C	A below ambient temerature incubation allow PCR products storage overnight
Running Report	Provide detailed reports of previously run protocols

OTHER FEATURES	
Power Supply	100V ~ 240V, 50-60Hz
Power Consumption	220W
Approvals	ISO9001:2015, CE
Dimension (L × W × H)	232×182×157mm
Net Weight	2.9KG

ByGene™ series

Dry Bath Incubator

BG200/BG100/BG25/BG32

ByGene™ series Dry Bath 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-denaturation, 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	BG200	BG100	BG25	BG32
Technology	Peltier-based	Peltier-based	Peltier-based	Peltier-based
Temp. Control Range	Room Temp. +5°C~100°C	0°C~100°C	-10°C~100°C	Room Temp. +5°C~100°C
Heating Time	<15min	<15min	≤15min	≤15min
control accuracy	±0.3°C	±0.3°C	±0.3°C	±0.3°C
Temp. Control Accuracy(@40°C)	±0.3°C	±0.3°C	±0.3°C	±0.3°C
Temp. Stability(@100°C)	±0.3°C	±0.3°C	±0.3°C	±0.3°C
Display Resolution	0.1°C	0.1°C	0.1°C	0.1°C
Temp. Bias Calibration Function	yes	yes	yes	yes
Timing Range	0min~99h59min	0min~99h59min	0min~99h59min	0min~99h59min
Max. Power	150W	150W	150W	150W
Mixing Speed	300rpm -2000rpm	300rpm -1500rpm	/	/
Mixing Orbit	2mm (Horizontal)	2mm (Horizontal)	/	/
Optional Block Model	A. 20 wells×0.5ml+15wells×1.5ml C. 54 wells×0.5ml E. 35 wells×2.0ml G. 35 wells×1.5ml	B. 96 wells×0.2ml D. 24 wells×5ml F. 24 wells×Φ12mm H. 6 wells×50ml	A. 96wells×0.2ml B. 24 wells×0.5ml+30wells×1.5ml C. 58 wells×0.5ml D. 39 wells×1.5ml E. 39 wells×2.0ml	
Certificate	CE			

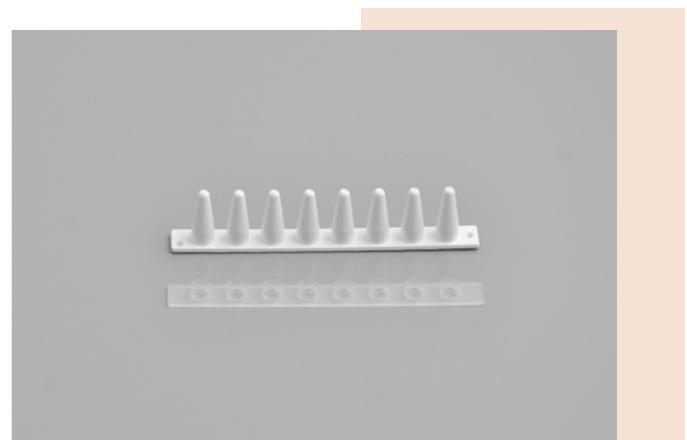
ClearGene™ series

Real-time qPCR

Consumables

0.1ml White 8-strip with optical clear flat caps

1. The 8-strip is made of high quality raw materials imported from Europe.
2. Reduce dead space and eliminate condensation on side wall of tubes.
3. Shorten optical path, detect a higher fluorescence signal.
4. Most ideal for real-time qPCR experiments



Semi-skirted 0.1ml 96-well qPCR plate (white, with optical clear sealing film)

1. Raw materials imported from Europe, not deformed, demonstrate good sealing
2. Compared with non-skirted plate, the mechanical strength is higher, minimize sample evaporation and distortion of fluorescence signals during the reaction
3. 0.1ml white plate, shorter optical path, higher sensitivity and accuracy
4. Reduce the amount of reagents and save cost

