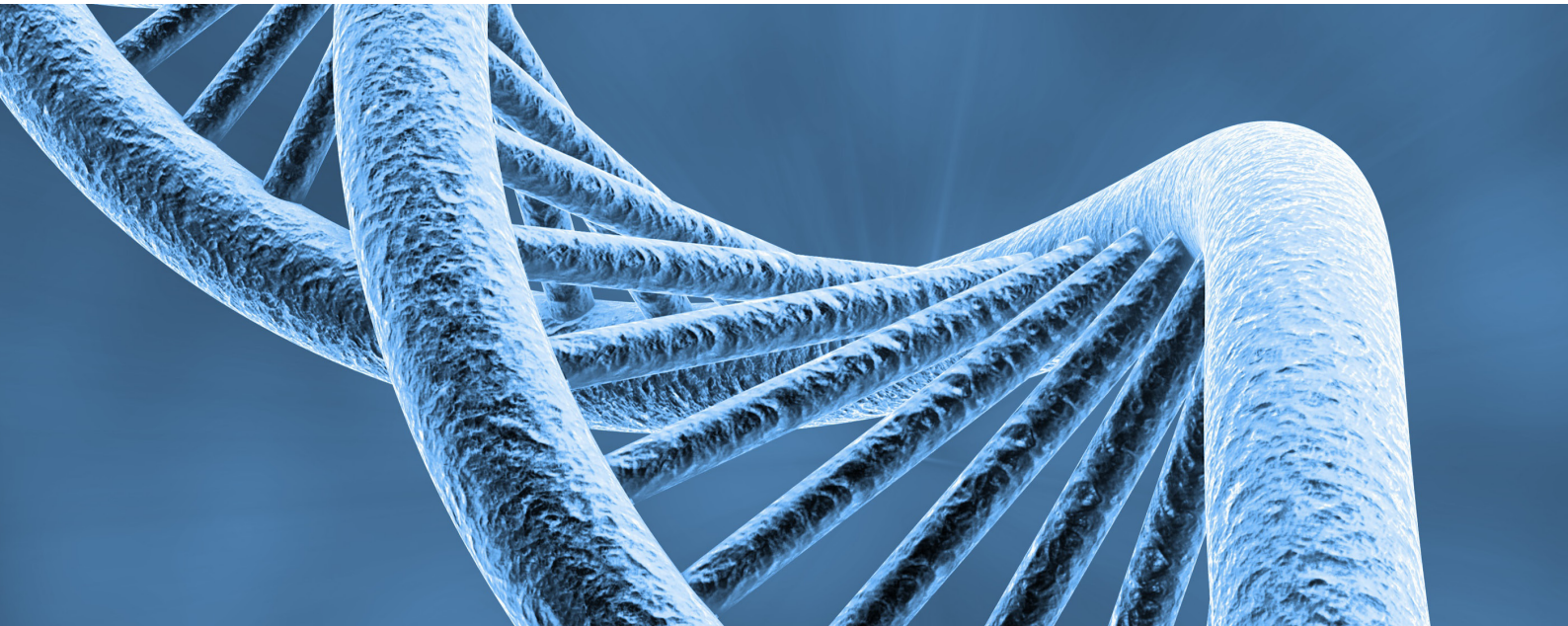
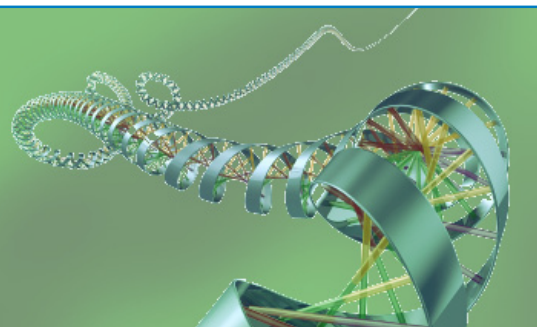


## **Standard Thermal Cyclers | Real-Time Thermal Cyclers**







## Who is Bioer?

Chances are you have never heard of Bioer. However they are a force to be reckoned within the thermal cycler field. In fact their Peltier technology forms the heart of many leading thermal cyclers throughout the world. So you have probably already been using their products in your current thermal cycler.

Bioer's name derives from 'Biological Pioneer' and they are one of the largest suppliers of PCR equipment in the world. Though you may not see their name on the package you have probably already used a product made with their expertise! Bioer Technology Ltd. is Japanese owned and founded by the Ferrotec Corporation Tokyo Japan - the world leader in the manufacture of Peltier elements.

They are committed to researching and manufacturing hi-tech products for life science laboratories including thermal cyclers, heating and cooling blocks and other equipment.

A few years ago they decided to make their technology available under their own name. All their expertise and experience is built into a superb range of thermal cyclers and life science equipment. These are produced in a state of the art facility in Hangzhou, China. This massive unit has a floor space of 26,000m<sup>2</sup> and utilises the latest computer technology throughout the production process that strictly follows the international ISO13485 standard for medical devices.

The thermal cyclers from Bioer have a fine pedigree built in, and as you would expect from a leading manufacturer, there are plenty of good reasons to choose Bioer for your next cycler.

- Driven by advanced Peltier technology from the world's leading manufacturer
- Precise and rapid temperature control for accurate PCR and quality results
- Intuitive software and large LCD display for set-up in seconds
- Interchangeable blocks for ultimate flexibility



## Thermal Cyclers Overview

Manufactured by one of the largest thermal cycler companies in the world, all Bioer PCR systems are powered by top-of-the-line thermoelectrics – from the world’s number one supplier of these heat pumps. With nearly 10,000 units shipped since 2005, and a reliability rate in excess of 95% you can trust in Bioer’s well-tested design principles.

Product	Block Format	Touch-Screen	Interchangeable Blocks	Thermal Gradient	Adjustable Heated Lid
 GeneQ™	24-well				×
 LifeECO™	96-well	×		×	×
 LifeTouch™	96-well	×		×	×
 Galaxy XP™	<ul style="list-style-type: none"> <li>• 96-well</li> <li>• Dual 48/48-well</li> </ul>		×	×	×
 GeneMax™	<ul style="list-style-type: none"> <li>• 96-well</li> <li>• 384-well</li> </ul>	×		×	×
 GeneTouch™	<ul style="list-style-type: none"> <li>• 96-well</li> <li>• 384-well</li> <li>• Dual 48/48-well</li> <li>• 4x slides</li> <li>• Dual 48/30-well</li> </ul>	×	×	×	×
 Gene Explorer™	<ul style="list-style-type: none"> <li>• 96-well</li> <li>• 384-well</li> <li>• Dual 48/48-well</li> <li>• 4x slides</li> </ul>	×		×	×



## GeneQ



GeneQ thermal cycler assembles superior performance, compact footprint, a user-friendly software and reliable results in one machine. Especially in the cooling and heating speed, temperature control accuracy and uniformity of the block, GeneQ has an outstanding performance.

- Faster: > 5°C/s maximum heat rate
- Better accuracy:  $\leq \pm 0.2^\circ\text{C}$  block temperature accuracy
- Higher uniformity:  $\leq \pm 0.2^\circ\text{C}$  block temperature uniformity
- Fast and easy change of the sample blocks from 24x0.2 ml to 18x0.5 ml and back
- Hot lid temperature and pressure are both adjustable

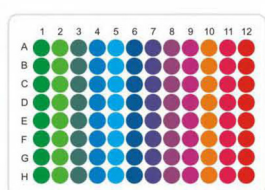
### GeneQ Specifications:

Name	GeneQ	
Model/ Cat. No	TC-24/H(B) BYQ6041E	TC-18/H(B) BYQ6042E
Sample Capacity	24x0.2ml / 8-strip / 24-well PCR plate	18x0.5ml
Temp. Range	4-99.9°C	
Heating Rate (max)	$\geq 5^\circ\text{C}$	$\geq 4^\circ\text{C}$
Cooling Rate (max)	$\geq 4^\circ\text{C}$	$\geq 3^\circ\text{C}$
Block Temp. Uniformity	$\leq \pm 0.2^\circ\text{C}$	
Block Temp. Accuracy	$\leq \pm 0.2^\circ\text{C}$	
Temp. of Hot Lid	30-110°C	
Adjustability of Hot Lid Pressure	Yes	
Temp. Control Mode	Block or Tube	
Display	320x240 LCD	
Graph Display	Yes	
Program Storage	100 Files	
Max. Segments	5	
Max. Program Steps	16	
Max. Cycles	99	
Power Supply	AC220V 50Hz 200VA	
Size (mm)	297x212x200(LxWxH)	
Net Weight	3.2kg	
Interfaces	RS232	
Certificates	Ferrotec Peltier / MET / CE / ROHS	

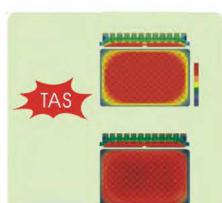
## LifeECO



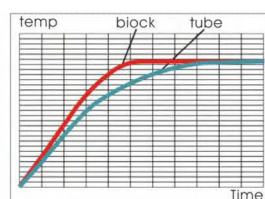
The Life Eco offers a large 5.7 inch touch screen and has a very intuitive interface to define your application efficiently. LifeECO uses TAS (Temperature Assistance System) technology to avoid the edge effect of thermal conduction of the block, which provides PCR experiments with first-class temperature uniformity. Multiple temperature control modes are selectable. According to the reagents, choose a suitable temperature control mode to achieve the best condition of amplification. An excellent gradient function, with a temperature range up to 30 °C, is provided. Life ECO offers three modes of operation, a single operation mode for one device, an online operation mode where the cycler is controlled by a computer and a network mode to control many devices by one computer.



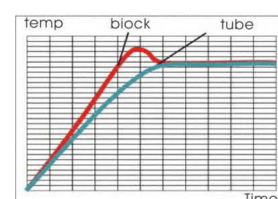
Gradient function



TAS



Temp. control mode "Block"



Temp. control mode "Tube"

### LifeECO Specifications

Name	LifeECO
Model/ Cat. No.	TC-96/G/H(b)B BYQ6078E
Sample Capacity	96-well PCR plate (full-skirted) / 12x8-strip / 96x0.2ml
Cooling Technology	Peltier-based
Display	5.7 inch, 262, 144 Color LCD Display and Touch Screen
Temp. Range	4-105°C
Heating Speed of Ramping	Up to 4°C/sec
Cooling Speed of Ramping	Up to 4°C/sec
Temp. Uniformity	≤0.3°C
Temp. Accuracy	≤±0.1°C (55°C) ≤±0.2°C (≥90°C)
Temp. Control Modes	Block or Tubes
Ramping Range Adjustable	0.1-4 °C
Memory	≥250 Typical Programs Onboard, Unlimited with USB Drive Expansion
Max. No. of Cycles	99: Suitable for Nested PCR
Time Up / Down	0-9min59sec, Suitable for Long PCR
Temp. Up / Down	0.1-9.9°C, Suitable for Touchdown PCR
Auto Pause / Power Protection	Yes
Soak Function	Yes
Gradient Range	30-105°C
Gradient Range of Temp. Differential	1-30°C
Hot Lid Temp. Range	30-110°C
Height of Hot Lid	Stepless Adjustable
Auto Shut-Off Function of Hot Lid	When block is below the setting temp. or after finish running, hot lid will be auto shut-off
Port	USB
Communication Interface	LAN
Input Power	100-240V, 50-60Hz
Output Power	600W
Dimensions/Weight	345x250x270mm/ 10kg
Certificates	Ferrotec Peltier / MET / CE / ROHS

## LifeTouch

On the basis of the LifePro, LifeTouch offers a 6.5" LCD color touch-screen for more convenient operation. LifeTouch has advanced thermoelectric cooling technology and new integrated TAS (Temperature Assistance System) technology for superior block uniformity. It upgrades the overall performance to a new height: more precise temperature control, faster heating and cooling, more uniform block temperature, smaller form factor, and more static operating environment.



### LifeTouch Specifications

Name	LifeTouch
Model/ Cat. No.	TC-96/G/H(b)B BYQ6098E
Sample Capacity	96-well PCR plate (full-skirted) / 12x8-strip / 96x0.2ml
Cooling Technology	Peltier-based
Display	6.5 inch, 262, 144 Color LCD Display and Touch Screen
Temp. Range	4-105°C
Heating Speed of Ramping	Up to 4°C/sec
Cooling Speed of Ramping	Up to 4°C/sec
Temp. Uniformity	≤0.2°C
Temp. Accuracy	≤±0.1°C (55°C) ≤±0.2°C (≥90°C)
Temp. Control Modes	Block or Tubes
Ramping Range Adjustable	0.1-4 °C
Memory	≥250 Typical Programs Onboard, Unlimited with USB Drive Expansion
Max. No. of Cycles	99: Suitable for Nested PCR
Time Up / Down	0-9min59sec, Suitable for Long PCR
Temp. Up / Down	0.1-9.9°C, Suitable for Touchdown PCR
Auto Pause / Power Protection	Yes
Soak Function	Yes
Gradient Range	30-105°C
Gradient Range of Temp. Differential	1-30°C
Hot Lid Temp. Range	30-110°C
Height of Hot Lid	Stepless Adjustable
Auto Shut-Off Function of Hot Lid	When block is below the setting temperature or after finish running, hot lid will be auto shut-off
Port	USB
Communication Interface	LAN
Input Power	100-240V, 50-60Hz
Output Power	600W
Dimensions	345x250x270mm
Net Weight	10kg
Certificatess	Ferrotec Peltier / MET / CE / ROHS

## Galaxy XP



With two interchangeable blocks available, the instrument meets any requirements for different PCR experiments. Its extra ramping rate and precise temperature controlling ensure speed and accuracy. Its extra large screen display and friendly operation interface make operations easy to understand. The inserted block is automatically identified by the base unit without any manual settings.

- Large display for convenient usage
- User-friendly and intuitive software
- Auto-recognition of the inserted block
- Dual blocks are controlled independently
- 96-well block with gradient with up to 30°C temperature range
- Adjustable hot lid pressure
- 2 interchangeable blocks available
- Power-off protection

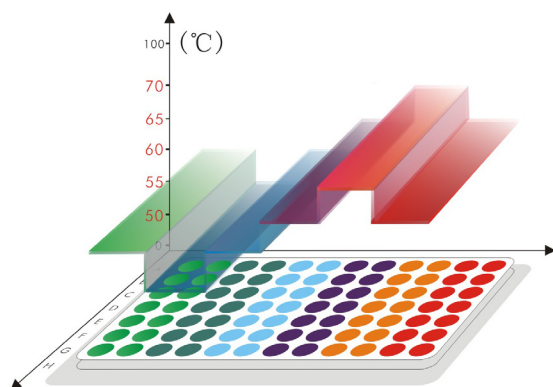
### Galaxy XP Specifications

Name		Galaxy XP	
Model/ Cat. No.		TC-XP BYQ602101B	
Block Model Cat. No.	XP-A BYQ602102E	XP-D BYQ602402E	
Sample Capacity	96-well PCR plate (half-skirted) 12×8-strip 96×0.2ml		2× 48×0.2ml
Temp. Range	4-99.9°C		
Heating Rate (max)	≥4°C/sec		
Cooling Rate (max)	≥3°C/sec		
Block Temp. Uniformity	≤±0.4°C		
Block Temp. Accuracy	≤±0.3°C		
Temp. of Hot Lid	30-110°C		
Adjustable Hot Lid	Yes		
Gradient Range	Yes		-
Temp. Control Mode	Block or Tube		
Display	320×240 LCD (5.7 inch)		
Graph Display	Yes		
Program Storage	99 Files		
Max. Segments	5		
Max. Program Steps	16		
Max. Cycles	99		
Power Supply	AC220V 50Hz 200W		
Size (mm)	470×340×260(L×W×H)		
Net Weight	10kg		
Interface	RS232		
Certificates	Ferrotec Peltier / MET / CE / ROHS		

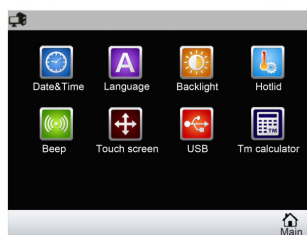


## GeneMax

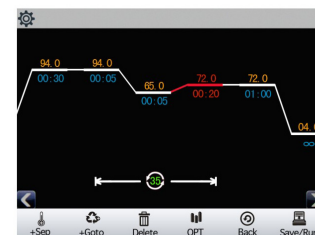
With its 10.4 inch touch screen GeneMax presents an unparalleled operating experience. Six separate Peltier modules and twelve temperature control sensors provide a high temperature accuracy. Network function allows one computer to control several GeneMax instruments - also wireless via the optional Bluetooth adapter. The maximal heating rate of 5°C/second ensures fast cycling protocols.



Annealing temperature



User Interface



User Interface

### GeneMax Specifications

Name	GeneMax	
Model/ Cat. No.	TC-S BYQ6067E nickle plated block TC-S BYQ6068E gold plated block	TC-S BYQ6069 (coming soon)
Sample Capacity	96-well PCR plate (full-skirted) 96x0.2ml tubes 12x8-strip	384-well PCR plate (full-skirted)
Cooling Technology	Peltier-based, 12 sensors, 6 groups of independent modules	
Display	10.4 inch, 262k Color LCD Display and Touch Screen	
Temp. Range	4°C~105°C	
Heating Speed of Ramping	Up to 5°C/sec	Up to 2.8°C/sec
Cooling Speed of Ramping	Up to 4°C/sec	Up to 2.8°C/sec
Temp. Uniformity	≤±0.2°C	
Temp. Accuracy	≤±0.1°C (55°C) ≤±0.2°C (≥90°C)	
Temp. Control Mode	Block or Tube	
Ramping Range Adjustable	0.1-4°C	
Memory	≥250 typical programs onboard, unlimited with USB drive expansion	
Max. No. of Cycles	99: suitable for Nested PCR	
Time Up / Down	0-9min 59sec, suitable for Long PCR	
Temp. Up / Down	0.1-9.9°C, suitable for Touchdown PCR	
Auto Pause / Power Protection	Yes	
Soak Function	Yes	
Gradient Range	30-105°C	-
Gradient Range of Temp. Differential	1-30°C	-
Hot Lid Temp. Range	30-110°C	
Height of Hot Lid	stepless adjustable	
Auto Shut-Off Function of Hot Lid	When block is below the setting temperature or after finish running, hot lid will be auto shut-off	
Port	USB	
Communication Interface	LAN	
Input Power	100-240V, 50-60Hz	
Output Power	600W	
Dimensions	457×316×309mm	
Net Weight	14kg	
Certificates	Ferrotec Peltier / MET / CE / ROHS	

## GeneTouch

Flexibility is a key feature of the GeneTouch PCR system. Offering five different types of interchangeable blocks, the GeneTouch chassis and block design provides you with plenty of options. With its clear touch-screen display GeneTouch allows convenient and easy programming.

- User-friendly and intuitive software
- 6.5 inch color touch-screen for convenient usage
- Auto-recognition of the inserted block
- 96-well and 384-well blocks with gradient with up to 30°C temperature range
- Adjustable hot lid pressure
- 5 interchangeable blocks available

### GeneTouch Specifications

Name	GeneTouch				
	TC-EA (Main Body) BYQ609101E				
Model/ Cat. No.	B-96GA BYQ607102E	B-3048UA BYQ607106E	B-384GA BYQ607103E	B-48DA BYQ607104E	B-41A BYQ607105E
Block Model Cat. No.	B-96GA BYQ607102E	B-3048UA BYQ607106E	B-384GA BYQ607103E	B-48DA BYQ607104E	B-41A BYQ607105E
Sample Capacity	96-well PCR plate (full-skirted) 96×0.2ml tubes 12×8-strip	30×0.5ml 48×0.2ml 4×12-strip	384-well PCR plate (full skirted)	48×0.2ml tubes 6×8-strip each block	4×standard <i>in situ</i> plates
Cooling Technology	Peltier-based				
Display	6.5 inch, 262, 144 Color LCD Display and Touch Screen				
Temp. Range	4°C~105°C				
Heating Speed of Ramping	Up to 4°C/sec	Up to 2.8°C/sec	Up to 2.8°C/sec	Up to 4°C/sec	Up to 1.8°C/sec
Cooling Speed of Ramping	Up to 4°C/sec	Up to 2.8°C/sec	Up to 2.8°C/sec	Up to 4°C/sec	Up to 1.8°C/sec
Temp. Uniformity	≤±0.2°C				
Temp. Accuracy	≤±0.1°C (55°C) ≤±0.2°C (≥90°C)				
Temp. Control Mode	Block or Tube				
Ramping Range Adjustable	0.1-4°C				
Memory	≥250 typical programs onboard, unlimited with USB drive expansion				
Max. No. of Cycles	99: suitable for Nested PCR				
Time Up / Down	0-9min 59sec, suitable for Long PCR				
Temp. Up / Down	0.1-9.9°C, suitable for Touchdown PCR				
Auto Pause / Power Protection	Yes				
Soak Function	Yes				
Gradient Range	30-105°C	-	30-105°C	-	-
Gradient Range of Temp. Differential	1-30°C	-	1-30°C	-	-
Hot Lid Temp. Range	30-110°C				
Height of Hot Lid	stepless adjustable				
Auto Shut-Off Function of Hot Lid	When block is below the setting temperature or after finish running, hot lid will be auto shut-off				
Port	USB				
Communication Interface	LAN				
Input Power	100-240V, 50~60Hz				
Output Power	600W				
Dimensions	368×250×285mm				
Net Weight	10.5kg				
Certificates	Ferrotec Peltier / MET / CE / ROHS				

## Gene Explorer

Gene Explorer's high temperature accuracy and uniformity ensure an unparalleled PCR experience. The maximal heating rate of 6°C/s and cooling rate of 5.5°C/s enable fast cycling protocols. Enjoy convenient operation via Touch Screen or mobile via App. 4 block types allow the usage for a broad range of applications.



App Interface



### Gene Explorer Specifications

Name	Gene Explorer				
Model Cat. No.	GE-96G BYQ6617E	GE-384G BYQ6629E	GE-4I BYQ6630E	GE-48D BYQ6631E	GE-48DG BYQ6640E
Sample Capacity	96x0.2ml tubes 12x8-strip, Gradient	384-well PCR plate, Gradient	4 x standard In-Situ-Plates	Dual 48x0.2 ml	Dual 48x0.2 ml, Gradient
Temperature Range	4-105° (min. resolution 0.1°C)				
Max. Heating Rate	5°C/sec				
Max. Cooling Rate	5.5°C/sec				
Temperature Uniformity	≤±0.2°C				
Temperature Accuracy	≤±0.2°C (30s after reaching 55, 72 and 95°C respectively)				
Hot-Lid Temperature Range	30-110°C				
Gradient Temperature Range	1-30°C	1-30°C	---	---	1-30°C
Max. Cycles	≥99 suitable for Nested PCR				
Time up/down	0-9m59s suitable for Long PCR				
Temperature up/down	0.1-9.9°C suitable for Touchdown PCR				
Memory	≥2000 programs on board, unlimited with USB flash drives				
Interface	USB, LAN, WiFi				
Mobile App	iOS/Android				
Power	100-240V, 50-50Hz, 600W				
Dimension (mm)	420x269x254 (LxWxH)				
Net Weight	12kg				

# Real-Time Thermal Cyclers

## LineGene K Real-Time PCR System



LineGene K shares the Peltier effect and fiber optic design features that provide the exceptional accuracy and stability of the LineGene instruments. The new units offer improved uniformity, stability and accuracy by utilizing a constant-current power supply and an advanced multi-point temperature control module. The LineGene K has improved temperature control and more uniform heating throughout the sample block to improve the accuracy of PCR detection.

- Volume adaptation - software automatically adjusts heat exchange to differences in sample volumes.
- New multipoint temperature monitoring allows more accurate and uniform temperature control throughout the heating block.
- Gradient function - creates a temperature gradient across the sample block. Maximum 24°C difference between row 1 and row 24.
- Sample preservation - after completion of experiment, the system can automatically cool samples until they are moved to storage.
- Use of direct current power supply improves thermal efficiency and reduces power consumption by 30%.
- Improved optics - greater efficiency in fiber optic system provides reduced signal to noise ratio. Automatic hot lid - provides constant pressure and software-managed temperature control.
- Configuration upgradable - manual versions of the instrument can be upgraded to automatic.
- Systems can be upgraded from 1 wavelength to 4 wavelengths.
- Numerous data ports - choose from serial (RS 232), USB and ethernet

connections for PC data interface.

- Multiple tube styles - the sample block will accept several styles of 0.2ml tubes including 8-tube strips.
- Data protection - system preserves experimental data if there is a power interruption during operation.
- Automatic amplitude adjustment - the instrument detects the fluorescence strength in the samples and automatically adjusts to the correct system sensitivity.
- New software - a new generation of LineGene software provides even greater convenience and more powerful functions.
- Upload software instructions - define experiment instructions with easy-to-use PC-based software, then upload to instrument.
- Overheating protection - if the operating environment exceeds the temperature range for operation within specification, the instrument will shut down. At 35°C the instrument will sound a warning, it will turn off at 40°C.
- SNPs Detection - LineGene system is a multicolor fluorescence detection system and can carry out the detection analysis of SNPs.
- 2nd Derivative Maximum - This

method automatically calculates the maximum second derivative value of every fluorescent curve and defines this value as the Ct value.

- Fit Points - The user sets baseline and a threshold values then draws a threshold line. Based on user instructions, the software will select a number of sample points on the fluorescence curve that are above baseline and in the logarithmic phase into a line. The intersection of this line with the threshold line is defined as the Ct value.

### LineGene K Specifications:

Name Cat. No	LineGene K 48A, (4A) BYQ6009E
Sample Capacity	48x0.2ml tubes
Sample Volume Range	10-100µl
Excitation Wavelength	F1: 470nm F2: 523nm F3: 584nm F4: 612nm
Detected Fluorescence	F1: FAM, SYBER Green I F2: HEX, VIC F3: TAMRA, JOE, CY3 F4: TEX RED, ROX
Temp. Range	4-99.9°C
Heating/ Cooling Rate (Max)	4°C/sec
Temp. Control Accuracy	±0.1°C
Gradient Temp. Range	1-24°C
Hot Lid Temp. Range	80-110°C
Scan Period	
Feature Function	Absolute / Relative Quantific SNP Analysis, Gradient, Automatic Gain
Operating System	Windows 2000/XP
PC Configuration	
Power Supply	AC220V±22V 500W 50Hz±1Hz
Dimensions (mm)	520x450x320 (LxWxH)
Net Weight	25kg (without computer)

## LineGene 9600 Real-Time PCR System

LineGene 9600 is the newest product of Bioer's Real-Time PCR detection system family. Based on LineGene family's tradition, LineGene 9600 performs larger sample capacity, more detection channels and wider temperature range.



### LineGene 9600 Specifications

Name Cat. No	LineGene K 48A, (4A) BYQ6009E	LineGene K 9640 BYQ6084E	LineGene K9660 BYQ6084E
Sample Capacity	48×0.2ml Tubes	96-Well Microplate (Full Skirted), 12×8-strip, 96×0.2ml (Bottom Transparent)	
Sample Volume Range	10-100µl	5-100µl	
Excitation Wavelength	F1: 470nm F2: 523nm F3: 584nm F4: 571nm	300-800nm	
Emission Wavelength	F1: 525nm F2: 564nm F3: 584nm F4: 612nm	500-800nm	
Detected Fluorescence	F1: FAM, SYBR Green I F2: HEX, VIC F3: TAMRA, JOE, CY3 F4: TEX RED, ROX	F1: FAM, SYBR Green I F2: VIC, HEX, TET, JOE F3: CY3, NED F4: ROX TAMRA, TEXAS-RED	F1: FAM, SYBR Green I F2: VIC, HEX, TET, JOE F3: CY3, NED F4: ROX, TAMRA, TEXAS-RED F5: CY5 F6: LightCycler Red
Temp. Range	4-99.9°C	4°C-105°C (Minimum Increment: 0.1°C) SOAK Low Temp. Conservation Function	
Heating/ Cooling Rate (max)	4.0°C/sec	4.0°C/sec	
Temp. Control Accuracy	≤±0.1 4.0°C	≤±0.1 4.0°C	
Gradient Temp. Range	1-24°C	1-36°C	
Hot-lid Temp. Range	80-110°C	30-110°C (Adjustable, Default 105°C, Automated Hot-lid)	
Scan Period		5.5S (F1/ F2 96 Plate Scan)	
Feature Function	Absolute/ Relative Quantification SNP Analysis, Gradient, Automatic Gain	Absolute/ Relative Quantification, SNP Analysis, Melting Curve, Gradient etc. Automatic Gain, Customized	
Operating System	Windows 2000/XP	Windows 2000/XP Software: Excel 2000/ 2002/ 2003 Access 2000/ 2002/ 2003	
PC Configuration		Memory: 512M Hard Disk: 10GB CPU: Pentium® 4 Virtual Memory: ≥1000MB	
Power Supply	AC220V±22V 500W 50Hz±1Hz	100-240V~50/60Hz 600W	
Dimension (mm)	520×450×320 (L×W×H)	430×395×352 (L×W×H)	
Net Weight	25kg (without computer)	28kg (without computer)	
Socket		RS32C Adapter, USB Adapter (Optional), Blue Tooth Adapter (Optional)	



## LineGene Mini Real-Time PCR System

Portable Real-Time PCR Detection: Due to its light weight and easy handling the LineGene Mini is perfect for field operations. A battery pack can be used as power supply.

- 16 x 0.2ml PCR tubes or 2 x 8-tube-strips
- 2 or 4 factory calibrated dye setup available



### LineGene Mini Specifications

Name Cat. No	LineGene Mini BYQ6618E	LineGene Mini BYQ6622E	LineGene Mini BYQ6623E
Sample Capacity	16 x 0.2 ml tubes or 2 x 8-tube-strips (flat and transparent cap)		
Reaction Volume	10-100µl		
Excitation Wavelength Range	400-700nm		
Detection Wavelength Range	550-750nm		
Sensitivity	1 copy		
Dynamic Range	1-10 <sup>10</sup> copies		
Factory Calibrated Dyes	F1: FAM, SYBR Green I F3: ROX	F1: FAM, SYBR Green I F2: VIC, HEX, TET, JOE, TAMRA, CY3, NED	F1: FAM, SYBR Green I F2: VIC, HEX, TET, JOE, TAMRA, CY3, NED F3: ROX F4: CY5
Temp. Range	0°C-100°C		
Maximum Heating/Cooling Rate	5.0°C/sec		
Average Heating/Cooling Rate	3.5°C/sec		
Temperature Resolution	0.1°C		
Temperature Accuracy	±0.1°C		
Hot-Lid Temperature Range	85-110°C		
Environment Temperature Range	5-35°C		
Safety Certification	IVD, CE, MET, RoHS 2.0		
Connection Options	USB Port		
Adapter Input	100-240V, 50-60Hz		
Power	DC 24V 180W, Power Adapter needed		
Dimension (mm)	280×220×240 (W×D×H)		
Net Weight	6.5kg		

 **BioConcept**  
*Instrument Services*

## Pipette Care

Pipette Care is servicing and calibrating all major brands. Including Sartorius®, Gilson®, Finnpipette®, Eppendorf®, Rainin®, Capp®, Socorex® and others.

- all brands • all types • all volumes
- fair and simple pricing policy - no hidden extras
- comprehensive inventory of spare parts for all models
- workmanship guaranteed for 12 months
- calibration and certification according to ISO 8655
- ISO 9001:2015 certified
- fast turnaround
- free return shipment



## Cyclor Care

Thermal Cyclor Calibration:

CYCLERtest is a leading manufacturer and provider of highly accurate thermocycler calibration systems and services. CYCLERtest is able to calibrate virtually any thermocycler, from basic PCR thermocyclers to highly advanced qPCR thermocyclers.

The MTAS® On-site Calibration Service enables laboratories to assure its thermocyclers are performing according to manufacturer`s, market or application specification.



## Instrument Care

We calibrate and service microplate readers, washers, dispensers and stackers of these brands: Dynex, Titertek-Berthold and Thermo Scientific.

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