

PCR THERMAL CYCLER



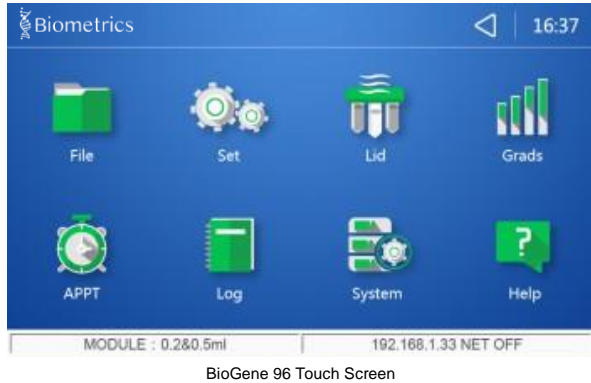
BioGene 96 TOUCH

Reliable and Versatile Design

BioGene 96 TOUCH

Overview

The **BioGene 96 TOUCH** cyclers is the flagship of Biometrics thermal cycling platform, offering unmatched performance for fast, accurate results and art interface with new ways to optimize protocols and meet any researcher's unique needs. It enables you to choose from multiple interchangeable block, use the intuitive touch screen interface, optimize PCR assays using the gradient feature, transport your files and data with a USB flash drive, and connect to your laptop/PC for remote monitoring and future upgrading.



Intuitive touch screen makes running PCR easier than ever before

The powerful, simple-to-operate user interface on the BioGene 96 system is driven by the 7-inch colorful touch screen. The large and intuitive graphical screen allows for real-time viewing of your temperature profiles. Additionally, the large navigation buttons put programming of the BioGene 96 Thermal Cycler at your fingertips. Set-up and navigation do not require the use of a stylus or mouse.

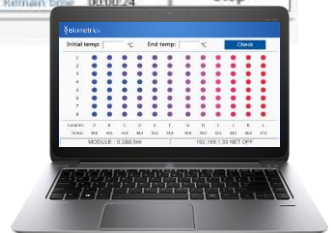
Realization of intelligence

Adopt the windows CE operating system to ensure the realization of intelligent instrument, with more than 100 self-diagnostic functions.

BioGene 96 achieves the network connection independently, users can visit our official website to update version, which prevent the complex operations and inconvenience of the traditional program updating.

Remote Management System from anywhere and everywhere

Access your BioGene 96 Thermal Cyclers everywhere you go with optional Remote Management Software, which allows you to manage and monitor over 200 thermal cyclers from your computer. Create and edit methods on your computer and download from or upload to your Thermal Cyclers systems as needed. The power of the BioGene 96 Thermal Cycler is just a click away.

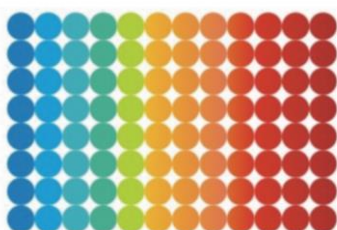


Remote Management System

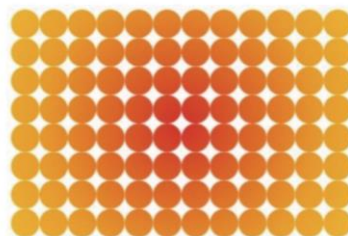
Outstanding thermal performance and superior uniformity

If you are like most researchers, you want to get results faster. A key components of overall protocol run time is the time to reach target temperature, which is determined by the average ramp rate and the time for the sample block to reach thermal uniformity. Biometrics thermal cyclers' sample blocks with unique design and treatment heat and cool more quickly to target temperature than standard blocks, so average ramp rates are increased and overall run times are reduced.

In PCR, precise and accurate block control is paramount. Biometrics thermal cyclers have six independently controlled thermal electric modules (TEs)*, the heating and cooling elements of the thermal cycler, to maintain tight temperature uniformity at all points during a run - even during ramping. Precise, uniform heating and cooling assures superior reproducibility and highest quality results



Gradient temperature diagram



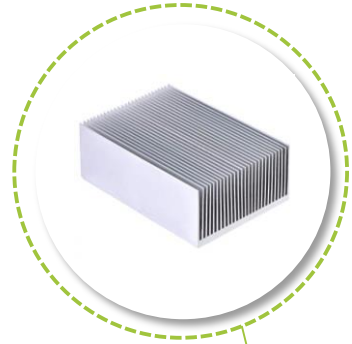
Conventional temperature diagram

Flexible and interchangeable sample blocks

Since PCR is central to genomics research, you need a flexible platform that can adapt as your research evolves. Biometrics thermal cyclers' modular design gives you a whole new level of versatility. Easy-to-change sample blocks in variety of well formats and materials let you configure a system for a wide range of PCR and cycle sequencing methods - today and tomorrow.

Reliable lids

- Specially designed lids reduce the evaporation during PCR
- Hinge utilized in laptop industry makes lid open more flexible
- Knob helps to accommodate a wide variety of PCR consumables



Environment & user friendly

- Optimized to very low energy consumption
- With its ultra-quiet ventilation, low noise levels are achieved, Enjoy it!

Patented portable design for blocks

- Versatile configuration options
- Gold coated on alloy blocks increase heat conduction efficiency
- Portable design is easy for sample blocks interchange without maintenance



Powerful heart and memory

- 2000 protocols on board, unlimited with use of USB memory stick
- ARM Platform, Windows CE operating system
- USB2.0, RS232, RJ45 communication port



Large colorful touch screen display

- 7 inches full color display, with touch screen operation
- Intuitive graphical programming
- Make a reservation and alarm for daily lab work
- Support the function of TM value calculation



Simple data transfer

- Portability: Transfer methods between BioGene systems via USB Ports
- Backup: Store your most important methods on a USB memory stick
- Storage: Store an unlimited number of methods by using a USB memory stick
- Uploads: Update firmware when enhancements become available



SPECIFICATION

Model	BioGene 96 TOUCH
Block Formats	96×0.2ml, 54×0.5ml, 96×0.2ml+77×0.5ml, 384well
Temperature Range	0°C – 100°C
Display Interface	7" LCD Touchscreen
Max. Heating Rate	5.0°C/s
Max. Cooling Rate	5.0°C/s
Heating/Cooling Adjustable rate	0.1°C/s – 4.0°C/s
Uniformity	≤ ±0.2°C
Accuracy	≤ ±0.1°C
Gradient Temperature Range	30°C – 100°C
Gradient Spread	1°C - 30°C
Gradient Uniformity	≤ ±0.2°C
Heat Lid Temperature	20°C - 110°C
Temperature Control Mode	Block, Tube
Memory Capacity	2000
Max. Number of Cycle	999
Communication	USB2.0 / RS232 / RJ45
Dimension (W×D×H, mm)	380×270×250
Weight	8.1kg

Optional Blocks

96-well Block, Gradient Enabled*	Holds 96×0.2ml tubes or one 96-well plate
54-well Block, Gradient Enabled*	Holds 54×0.5ml tubes
96-well+77-well Block, Gradient Enabled*	Holds 96×0.2ml tubes, one 96-well plate or 77×0.5ml tubes
384-well Block	Holds one 384-well plate



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