

# Q3200 Real-Time PCR System

## Description

Q3200 Real-Time PCR System is a portable fluorescence quantitative PCR instrument developed by Bio-Gener company. This product adopts four channel and double 16-well blocks, which can run two different files simultaneously. The product combines a variety of advanced technologies: 7-inch high-definition TFT color touch screen, win10 operating system with analysis software, complete quantitative analysis and printing report without computer. It adopts American Marlow custom-made peltier, high sensitivity photoelectric detector and side scan technology, to ensure superior performance and stable detection results.



## Application

the product can be used for real-time detection in pasture, forest farm, breeding farm and water source. It is used for rapid diagnosis of disaster and epidemic disease, inspection and quarantine in the field of food safety, and scientific research in biological laboratories.

## Features

- Small size, light weight, easy to carry.
- Four channel and double 16-well blocks design, can run two different programs at the same time.
- Electromagnetic lock cover prevents the hot lid from accidentally opening
- The software analysis function is powerful and can carry out a variety of experiments

## Parameters

Model/Specification				
Model No.	Q3202	Q3204	Q3202-F	Q3204-F
Sample Capacity	32×0.2ml(4×8well, dual block)			
Formats	Clear 0.2 ml PCR tube /8-tube strips			
Reaction Volume	15-100μl			
Temperature Control Performance				
Temperature Control Technology	Marlow customized Peltier allow 1, 000, 000 cycles			
Temperature Range	0-100°C			
MAX. Ramp Rate	5°C		8°C	
Temp. Fluctuation	≤±0.1°C			
Uniformity	≤±0.25°C			
Accuracy	≤±0.25°C			
Hot Lid Temperature	30°C-115°C (Adjustable, default 105°C)			
Temperature Control	Block/Tube			
Optical Performance				
Excitation Wavelength	300-800nm			
Emission Wavelength	500-800nm			
Factory Calibrated Dyes	F1:FAM/SYBR Green I F2:HEX/VIC/JOE/TET	F1:FAM/SYBR Green I F2:HEX/VIC/JOE/TET F3: ROX/TEXAS-RED F4: CY5/CY5.5/LC RED	F1:FAM/SYBR Green I F2:HEX/VIC/JOE/TET	F1:FAM/SYBR Green I F2:HEX/VIC/JOE/TET F3: ROX/TEXAS-RED F4: CY5/CY5.5/LC RED
Excitation	Long life LED			
Detection	High sensitivity photoelectric detector			
Dynamic Range	1-10 <sup>10</sup> Copies			
Sensitivity	1 copy			
Control System				
Feature Function	Quantitative/qualitative analysis, Relative quantitative, Melting curve, Genotyping			
Date Export Formats	xls, csv, txt, pdf, jpg			
Printing	Report can be printed (optional USB thermal printer)			
Control Method	7 inch color TFT touch screen, can be connected to computer control			
Communication	USB 2.0/ WIFI			
Other Performance				
Dimension	300×267×198mm(L×W×H)			
Net Weight	8KG		11KG	
Voltage	220VAC, 50Hz			
Power	DC15V 255W		DC27.5V 600W	

