

# Q1600 Real-Time PCR System

## Description

Q1600 Real-Time PCR System is a portable fluorescence quantitative PCR instrument developed by Bio-Gener company. This product adopts four-channel and double 8-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

- 2 x 8well dual-block design, one machine can run two different programs at the same time
- Simple operation, easy to start experiment
- Powerful analysis function to make quantitative analysis, melting curve, genotyping and etc.
- Side scan technology and the fluorescence acquisition signal is stable

## Specification

Model	Q1601	Q1602	Q1604-F <b>NEW</b>
Capacity	16 × 0.2ml(2 × 8well, dual block)		
Consumable	Clear 0.2 ml PCR tube /8-tube strips		
Reaction Volume	15–100 μ l		
Temperature control technology	Marlow customized Peltier allow 1.000.000 cycles		
Temperature Range	0–100°C (Resolution:0.1°C)		
MAX. Ramp Rate	6°C/s	6°C/s	7°C/s
Temperature fluctuation	± 0.1°C		
Uniformity	± 0.25°C		
Accuracy	± 0.25°C		
Hot Lid Temperature	30–110°C ((Adjustable, default 105°C))		
Temperature Control	Block/Tube		
Excitation wavelength	460–550nm	460–550nm	460–650nm
Emission wavelength	F1: 520–540 nm	F1: 520–540 nm F2: 540–580 nm	F1: 520–540nm F2: 540–580nm F3: 571–612nm F4: 628–692nm
Factory Calibrated Dyes	F1: FAM/SYBR Green I	F1: FAM/SYBR Green I F2: HEX/VIC/JOE/TET	F1: FAM/SYBR Green I F2: HEX/VIC/JOE/TET F3: ROX F4: CY5
Excitation	Long life LED		
Detection	High sensitivity photoelectric detector		
Dynamic Range	1–10 <sup>10</sup> Copies		
Sensitivity	1 copy		
Feature function	Quantitative/qualitative analysis, Melting curve, Genotyping		
Date Export Formats	excel, csv, txt		
Printing	Report can be printed (optional USB thermal printer)		
Control Method	7 inch color TFT touch screen, Can be connected to computer control		
Communication	WIFI/USB 2.0	WIFI/USB 2.0	USB 2.0
Dimension	300 × 267 × 198 mm (L × W × H)		
Net Weight	8 KG		
Voltage	220 VAC、50 Hz		
Power	DC 15V 255 W		

