

# Q2000 Series Real Time qPCR System



## Features

- The new powerful Peltier technology, fast ramping rate up to 6°C/s
- 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 SSLPTM 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

## Technical Specifications

MODEL	Q2000 SERIES
Sample block capacity	96 wells * 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 and Cooling technology	New generation Peltier technology allow 1,000,000 cycles
Control methods	Operated via PC or self-contained touch screen on instrument
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 ( <b>extra option</b> )	Remote PC control to manage 30 units across the LAN network
<b>TEMPERATURE</b>	
Block temperature range	0°C~105°C
Max. heating rate	6°C/s
Max. cooling rate	5°C/s
Temperature uniformity	≤±0.2°C
Temperature accuracy	≤±0.1°C
Display resolution	0.1°C
Heat lid temperature range	30°C~112°C
Gradient range	30°C~105°C
Temp. differential range	0.1°C~42°C
<b>FLUORESCENCE DETECTION</b>	
Excitation	Long life LED lamps
Detection	CCDs
Dynamic range	1~10 <sup>10</sup>
Sensitivity	≥1 copy
<b>Q2000A</b>	F1: FAM/SYBR Green
Calibrated dyes at installation	F2: VIC/HEX/JOE/CY3/TET* (*Customizable)
<b>Q2000B</b>	F1: FAM/SYBR Green
Calibrated dyes at installation	F2: VIC/HEX/JOE/CY3/TET* (*Customizable)
	F3: ROX/TEXAS-RED/TAMRA* (*Customizable)
	F4: CY5/Quasar670
<b>Q2000C</b>	F1: FAM/SYBR Green
Calibrated dyes at installation	F2: VIC/HEX/JOE/CY3/TET* (*Customizable)
	F3: ROX/TEXAS-RED/TAMRA* (*Customizable)
	F4: CY5/Quasar670
	F5: CY5.5
	F6: Reserved
Fluorescence Excitation Range	300~ 800nm
Fluorescence Detection Range	500 ~800nm

Data Export Formats	TXT, PDF, WORD, EXCEL
<b>OTHER FEATURES</b>	
AC power supply	100V ~ 240V, 50-60Hz
Consumption	600W
Communication	USB 2.0 & LAN
Dimension (L×W×H)	334×280×365mm
Neight weight	13KGS
Computer operating systems	Windows10、Windows7、Windows XP
Language	English



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