

# Real-Time PCR System 96 hole QPCR

PCR-Q96-5    PCR-Q96-6



## Description

As a necessary choice for quantitative analysis of molecular biology, real-time PCR system has been widely used in various fields such as scientific research, clinical detection and diagnosis, quality and safety testing, and forensic applications.

## Description

- Up to 6 fluorescence detection channels allowing multiplex PCR.
- Effectively reduce multi-color crosstalk and edge effect, no ROX correction required.
- New optical scanning detection system
- Innovative scanning method and time-resolved signal separation technology
- Unique edge temperature compensation technology
- User-friendly software

## Temperature control system

Model	PCR-Q96-5	PCR-Q96-6
Sample capacity	96	
Reaction volume	10–50 µl	
Thermal cycle technology	Peltier	
Max. Heating/Cooling rate	6.0° C/s	
Heating temperature range	4 – 100 °C	
Temperature accuracy	± 0.2°C	
Temperature uniformity	±0.2 °C @60 °C , ±0.3 °C @95 °C	
Temperature gradient setting range	30–100°C	
Temperature gradient difference setting range	1 – 36°C	
Detection system		
Excitation light source	4 monochrome high efficiency LEDs	6 monochrome high efficiency LEDs
Detection device	PMT	
Detection mode	Time-resolved signal separating technology	
Excitation/detection wavelength range	455–650nm/510–715nm	
Fluorescent channels	5 channels	6 channels
Supported dye	FAM/SYBR Green, VIC/JOE/HEX/TET, ABY/NED/TAMRA/Cy3, JUN, ROX/Texas Red, Mustang Purple, Cy5/LIZ	
Sensitivity	Single copy gene	
Resolution	1.33 folds copy number difference can be distinguished in single-plex qPCR	
Dynamic range	10 orders of magnitude copies	

