

## **Accurate 96 Real-Time Quantitative PCR**

## Introduction

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.



## Features

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



## **Parameters**

Temperature control system	
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	$\pm 0.2^{\circ}C$
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	4/6 monochrome high efficiency LEDs
Detection device	PMT
Detection mode	Time-resolved signal separating technology
Excitation/detection wavelength range	455-650nm/510-715nm
Fluorescent channels	4/6 channels
Supported dye	FAM/SYBR Green, VIC/JOE/HEX/TET, ABY/NED/TAMRA/Cy3 (6 channels), JUN, ROX/Texas Red, Mustang Purple, Cy5/LIZ
Sensitivity	Single copy gene
Resolution	<b>1.33</b> folds copy number difference can be distinguished in single-plex qPCR
Dynamic range	10 orders of magnitude copies

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