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.

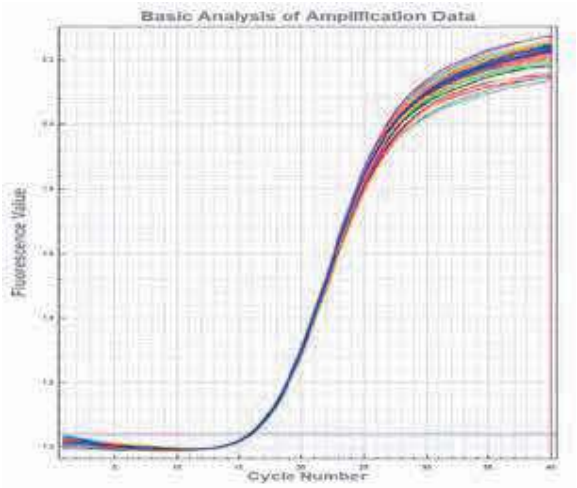
Real-Time PCR System

Accurate 96

Features

- 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

Channel 6	Channel 5	Channel 4
NED/Cy3/TAMRA	ROX/Texas Red	FAM/SYBR
VIC/HEX/TET/JOE	CY5/Quasar 670	FAM/SYBR
Channel 3	Channel 2	Channel 1



Technical Parameters

Temperature control system		Detection system	
Sample capacity	0.1ml PCR tubes×96, 8×12 PCR plate or 96 well plate ×1	Excitation light source	4/6 monochrome high efficiency LEDs
Reaction volume	10-50 μl	Detection device	PMT
Thermal cycle technology	Peltier	Detection mode	Time-resolved signal separating technology
Max. Heating/Cooling rate	6.0° C/s	Excitation/detection wavelength range	455-650nm/510-715nm
Heating temperature range	4 – 100 °C	Fluorescent channels	4/6 channels
Temperature accuracy	± 0.2°C	Supported dye	FAM/SYBR Green, VIC/JOE/HEX/TET, ABY/NED/TAMRA/Cy3, JUN, ROX/ Texas Red, Mustang Purple, Cy5/LIZ
Temperature uniformity	±0.2°C @60°C , ±0.2°C @95°C	Sensitivity	Single copy gene
Temperature gradient setting range	30–100°C	Resolution	1.33 folds copy number difference can be distinguished in single-plex qPCR
Temperature gradient difference setting range	1 – 36°C	Dynamic range	10 orders of magnitude copies