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.



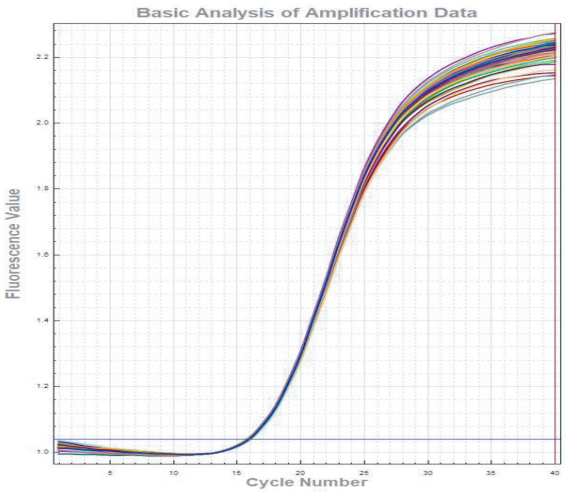
Real-Time PCR System

Accurate 96

Features

- Up to 6 fluorescence detection channels allowing multiplex PCR.
- Effectively reduce multi-color crosstalk and edge effect, no ROX correction required to reduce sample and reagent use
- Innovative scanning method and time-resolved signal separation technology to improve detection sensitivity
- Unique edge temperature compensation technology to minimize "edge effect"
- User-friendly software
- Innovative technology with long-lastig LED light provides reliability results

Channel 6	Channel 5	Channel 4
NED/Cy3/TAMRA 543±20/584±20	ROX/Texas Red 571±20/610±20	FAM/SYBR 480±10/518±10
VIC/HEX/TET/JOE 532±10/564±20	CY5/Quasar 670 640±20/692±40	FAM/SYBR 480±10/518±10
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**	5/6 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/HEX ROX,Cy5,Cy3(only for x6)
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