

For Any Technical Questions, Please Contact at info@nodesus.com

Product Name: Real-Time Quantitative PCR System nQ96-X4/5

Product Description:

nQ96-X4/5 is 96-wells Real-Time Quantitative PCR system. Based on innovative signal gathering and spectrum separation technology, together with unique temperature control technology, it reached an advanced level in terms of detection sensitivity, multi-color crosstalk correction, temperature uniformity and accuracy. The instrument is available with a 4-channel or a 5-channel configuration and is compatible with a wide spectrum of qPCR dye-based and probe-based chemistry, easily realizing multiplex PCR applications. The instrument supports standard analysis methods like absolute quantification, genotype, HRM, MMCA, and gene expressing analysis.

Features:

- Fast and Precise Thermal Cycling
- Innovative Optic Design
- Excellent Reproducibility
- Up to 10-log dynamic range
- Melting Curve Analysis
- High Efficiency in Multiplex
- High Resolution

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Product Specification:

Thermal Control System	
Sample capacity	8*0.1mL PCR strip*12 96*0.1mL individual tube 0.1mL PCR Plate
Sample volume	10-50 μ L
Heating and Cooling method	Peltier
Maximum ramping rate	6.0° C/s
Temperature range	4-100 °C
Temperature accuracy	\pm 0.2°C
Temperature uniformity	\pm 0.2°C@60°C \pm 0.3°C@95°C
Optical Detecting System	
Excitation light	4/5pcs high-efficiency single color LED
Detector	SIPMT
Detection method	Time-resolved real-time scanning
Excitation/Emission wavelengths	455-650nm/510-750nm
Detection Channels	4 (optional 5 channels)
Supported dyes	FAM/SYBR Green, VIC/JOE/HEX/TET, ROX/Texas Red, Cy5/LIZ, (Optional- Cy5.5 for 5-channel model)
Multiplexing	Up to 4 targets (optional 5 targets for 5-channel model)
Sensitivity	1 copy gene
Resolution	1.33-fold copies difference in single-plex reaction
Dynamic range	10 orders of magnitude
Analysis Mode	
absolute quantification and melting curve analysis	
Data Export	
the original result, data and result in excel, program setting, amplification curve image	