

QuantGene 9600



NEW!

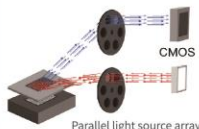
Based on the consistent superior quality of LineGene family, QuantGene 9600 has adopted mature thermoelectric refrigeration technology, brand-new light source and light path design. The unique constant-current power and 6-zone independent temperature control method ensure more rapid, correct and stable fluorescence quantitative analysis of the product, while maintaining its excellent performance in low energy consumption.

The product is modularized with various configurations to choose from. Meanwhile, it has been added with functions including independent temperature control, low-temperature storage of sample at 4°C, and automatic dehumidification.

Compared with last-generation equipment, it will comprehensively realize automatic gain setting and improve user experience. In the meantime, system customization is available for satisfying requirements of various clients. Thus, it will fully meet the demand of scientific research and clinical diagnosis.

Light path detection system

Light path detection system



Parallel light source array

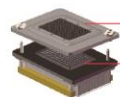
- Completely new parallel light source array; improve laser effect and intensify fluorescence signal.
- Illuminating and receiving respectively adopt independent filter wheel; it thus requires no path expansion to deal with secondary laser detection test.
- With concentrated beam conduction design of imported high-end optical fiber adopted, it can improve fluorescence signal and reduce optical conduction loss.
- It has adopted top imaging technology and requires less than 1 second to test one channel.

Light path system



- Light path
- Adopt new-generation high-sensitive CMOS
- Brand-new optical design and image calculation processing

Superior performance on temperature control and sealing effect



- Hot lid
- Better temperature uniformity
- Temperature control module
- Adopt long-service life semi-conductor refrigerator
- Adopt 6 temperature zone module
- Adaptable to various test tubes

Temperature control module

Internal hot lid

Internal hot lid ensures better temperature uniformity and reduces reagent evaporation in test tube to the maximum extent.

High temperature rise rate

High ramp rate, adopt long-service life thermoelectric module

Block with 6 independent temperature zones

Block with 6 independent temperature zones and TAS technology ensures high temperature uniformity between each well.

Good sealing effect

With superior performance on sealing effect, the temperature control module can store sample in low temperature without dew formation. After experiment is finished, the sample is not necessary to be taken out immediately, easier for downstream application use.

Intelligent operating system

UI design

New UI design of international standard can adapt to the operation custom in mainstream market both at home and abroad.

Adaptable to smart phone app

Smart phone app ensures remote operation and real time monitoring.

Auto Gain

User experience is improved with the comprehensive accomplishment of auto gain.

Multiple analysis modes

It covers multiple analysis modes: qualitative/absolute quantitative, standard curve, melting curve, high-resolution melting curve (HRM), SNP analysis, and relative quantitative and isothermal amplification.

Comprehensive analysis

Comprehensive analysis and report functions, flexibly print multiple and single sample reports.

Product parameters

Product name	QuantGene 9600 Fluorescence Quantitative PCR Detection System					
Product model	FQD-96C					
Sample capacity	0.2ml single tube (with transparent cap), 96×0.2(0.1) ml PCR plate (with transparent cap) 8-strip tube (with transparent caps)					
Reaction system	10-100μL(96 well block)					
Dynamic range	1~10 ¹⁰					
Detection path	F1	F2	F3	F4	F5	F6
Suitable probe/dye	FAM, SYBR Green I	HEX/VIC/TET/JOE/CY3 /NED/TAMRA	ROX, TEXAS-RED	Cy5	Cy5.5	Customized
Excitation wavelength	300-800nm					
Fluorescence detection wavelength	500-800nm					
Module working temperature range	4-105°C (resolution: 0.1°C)					
Max. temperature heating rate	6°C/s					
Max. temperature cooling rate	5.5°C/s					
Temperature control precision	±0.15°C					
Temperature uniformity	≤±0.2°C					
Hot lid temperature range	Setting temperature: 30-110°C (adjustable, minimum: ambient temperature +5°C)					
Temperature control mode	Block Mode and Tube Mode					
Special function	Absolute quantitative automatic analysis, relative quantitative, SNP analysis, Melting curve analysis, 6 independent temperature zones, HRM, Multi-channel crosstalk calibration, background correction, Auto Gain, customizable parameters, etc.					
Gradient control section	6-zone temperature control					
Port method	USB port (connect to computer); Bluetooth port					
Input power	100-240V, 50/60Hz, 1000VA					
Outer dimension	380mm×400mm×380mm					
Net weight	20KG					
Safety protection and alarm	Over-temperature protection and alarm for hot lid; Over-temperature protection for switch power					
Safety certification	CE/EMC, in line with RoHS2 requirements					

*effect value tested in standard lab environment.