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## LineGene 9600 Plus



LineGene 9600 Plus real time PCR detection system is specially designed for research and clinical users. It adopts the newest customized semi-conductor refrigerator (Peltier) of Ferrotec. With advanced optical fiber technology and brand-new global wide-voltage switch power, patent technology of unique heat dissipation and patent mode of bottom detection, LineGene 9600 Plus presents higher ramp rate, better temperature control precision, temperature uniformity and performance stability.



96-well high throughput



Motors with auto brake for self-protection



Maximum 36°C gradient temperature range



3D hot lid



Portable tablet compatibility with wireless use makes operation easier.

### Product features

#### Superior performance

- New TE module with special technique to ensure long service life
- Precise temperature control technology ensures temperature fluctuation of each well lower than 0.1°C
- Unique bottom detection, compatible to reaction volume down to 5µl
- Combination of precise light path system and super highly-sensitive PMT system ensures super high sensitivity and precision of fluorescence detection
- LED excitation light source of super long service life requires no maintenance.
- Brand-new automatic hot lid technology, free from manual operation, automatic open and close, effectively prevent reagent evaporation
- 6 channels fluorescence detection, no crosstalk between different channels
- Equipped with whole block scanning and formulated line scanning mode, 96-well double-color scanning takes only 5.5s

#### Powerful software system

- Operation interface in English language, simple to use
- Multiple templates, easy to find experiments saved, and fast to set up new experiment.
- Various analysis modes: qualitative/absolute quantitative, standard curve, melting curve, high-resolution melting curve (HRM), SNP analysis, relative quantitative and isothermal amplification.
- Humanized software with user friendly interface
- Comprehensive analysis and report function, flexibly print single and multiple sample reports
- Custom gain and auto gain fully satisfy various experiment demand of different users.

### Powerful technical team

- BIOER owns over fifteen years' experience in professional PCR development and technical accumulation.
- BIOER provides comprehensive pre-sales technical support and after-sales application engineers.
- It owns professional reagent development team which can provide a full range of reagents independently developed to deal with compatibility of the upstream and downstream reagents, making scientific research easier.

### Product parameters

Product name	LineGene 9600 Plus Fluorescent Quantitative Detection System					
Product model	FQD-96A					
Sample capacity	96×0.2ml PCR plate, 12×8-strip tubes, 96×0.2ml single tube (transparent bottom)					
Reaction system	5-100µL					
Dynamic range	1~10 <sup>10</sup>					
Medical instrument registration certificate	G.X.Z.Z. 20153400273					
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	Reserved path
Excitation wavelength	300-800nm					
Detection wavelength	500-800nm					
Module working temperature range	4-105°C (resolution: 0.1°C) with SOAK low-temperature storage function					
Ramp rate	4.0°C/s (max)					
Temperature control precision	±0.1°C					
Temperature uniformity	≤±0.3°C					
Hot lid temperature range	30-110°C (adjustable, default by 105°C and automatic hot lid)					
Temperature control mode	Block Mode and Tube Mode (automatic control based on liquid level)					
Operation mode	Continuous operation					
Gradient temperature range	1-36°C					
Fluorescence intense detection repetition	5%					
Scanning mode	Full-plate scanning and designated line scanning					
Scanning time	5.5s					
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.					
Programming	Max. 20 segments for each program, max. 99 cycles					
Operating system	Microsoft: Windows 7/Window 8.1/Window 10 application software: : Excel 2000/2002/2003/2007/2012					
Minimum computer configuration	RAM: 512M, hardware space: 10GB CPU: Pentium®4 virtual memory: ≥1000MB					
Port method	Support USB and RS232 data port and Bluetooth port					
Input power	100-240V, 50/60Hz, 600W					
Outer dimension	410mm×386mm×352mm					
Certification	Ferrotec Peltier/CE/EMC/RoHS2.0/PICC Product Quality Liability Insurance/IVD/MET					

QuantGene 9600

LineGene 9600 Plus

LineGene K Plus

LineGene Mini