PARAMETERS

Name	Real-Time Fluorescent Quantitative PCR System
Model	FluQuant 96
Throughput	96 well (12 X 8)
Applicable consumables	PCR single tube or strip, 96well*0.2ml half skirted/ no skirted plate
Dynamic range	1-10^{10}copies
Detection location	Top detection
Excitation light wavelength	400-800nm
Detection wavelength	500-800nm
Fluorescence channels	6 channels
Fluorochrome/dye	Channel 1: FAM/SYBR Green I　Channel 2: JOE/HEX/TET/VIC Channel 3: NED/TAMRA/Cy3　Channel 4: ROX/Texas Red Channel 5: Cy5　Channel 6: Cy5.5
Excitation light source	***full-spectrum*** LED
Detector	PMT
Block temperature range	4～105℃
Block temperature accuracy	≤±0.1℃
Block temperature precision	≤±0.1℃
Block temperature uniformity	≤±0.1℃
Max heating & cooling rate of block	≥6℃/s
Gradient temperature difference	1-40℃
Block temperature control mode	Block mode, analog Tube mode
Sample volume range	5-100 μL
Heated lid temperature range	30℃-110℃ (default 105℃)
Fluorescence intensity detection repeatability	CV≤3%
Touch screen	Yes, 10.1-inch touch screen
Scan mode	Full plate scan or specified line scan
Software functions	Absolute quantification, Relative quantification, Melting curve, SNP genotyping, HRM, Quick run, etc.
Operation system	PC software, dual operation modes
Ports	USB Type-A port × 2, USB Type-B port, RJ45 port
Power-off protection function	YES, data can be restored after power-on
Sample plate control mode	Automatic in/out, dual software detection, preset interface, automatic workstation can be connected.
Dimension	320(W)mm×525(L)mm×420(H)mm
Net weight	27 Kg

FluQuant 96

Real-Time Fluorescent Quantitative PCR System

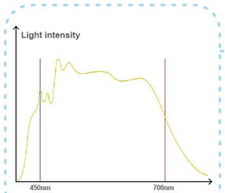
- 96-well high-throughput
- Up to 6 channels
- Highly sensitive PMT detection
- Maximum 40°C gradient temperature

Real-Time Fluorescent Quantitative PCR System

INTRODUCTION

FluQuant is a 96well touchscreen quantitative fluorescence Real-time PCR System, which has two temperature control mode of Block or analog Tube, dual operating system, equipped with a 10.1-inch high-definition color touch screen, with the built-in analysis software to achieve easy use. Combining the innovative thermal cycling system, accurate photoelectric detection system, powerful software etc., it escorts the accuracy of experimental results.

FEATURES



* High-sensitivity

The full-spectrum high-power LED with high sensitive Hamamatsu photomultiplier tube top scanning, to achieve higher sensitivity and accuracy of the machine.

* High-precision

High-precision temperature control guarantees the block temperature resolution at 0.1 °C and temperature uniformity of 0.1°C. Gradient temperature control range is 30-100°C and the maximum temperature difference is 40°C.

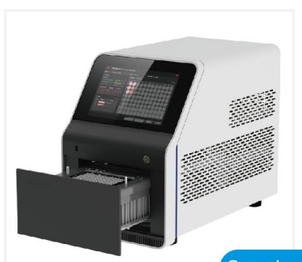
* Automation

Sample plate automatic out, 96-well high-throughput, can be connected to an automated workstation.

* International design

Designed by a German professional team, the design conforms to ergonomic characteristics, meets the user's operation requirements, and has a sense of technology as a whole.

STATUS DISPLAY



Sample plate automatic out

Working

SOFTWARE DISPLAY

Built-in software

PC software

- 10.1-inch large touch screen, precise response, convenient operation.
- 6 fluorescence channels to meet a variety of experimental schemes.
- Preset templates + “Quick Run”, start experiment immediately.
- Connected with automatic workstation to realize unmanned detection.
- Flexible program settings to meet the individual needs of users.
- Diversified online mode, suitable for different application scenarios.
- Dual operating system to improve user’s experience.

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