

Singu9600 Pro

Real-Time PCR Quantitative System



16-wells PCR is specially designed for rapid nucleic acid testing needs in applied fields such as clinical, food, environmental and research. It supported by highly-sensitive fluorescence measurements made in real-time. The instrument can detect 16 samples at the same time, and the standard configuration is FAM/SYBR, VIC two-color fluorescence channels, ROX and Cy5 fluorescence channels are optional. Singu9600 Pro is light and compact, supports stand-alone operation, with 7-inch color touch screen to display the experimental results visually. The instrument adopts innovative liquid cycle refrigeration technology, combined with Peltier temperature control technology to achieve rapid heating and cooling. It can easily realize CT value analysis, absolute quantitative analysis, support isothermal amplification and end point analysis (customizable).

Features

- 1 On board software with large screen panel, easy for use : 7-inch color touch screen shows all parameters, test results and real time testing curve.

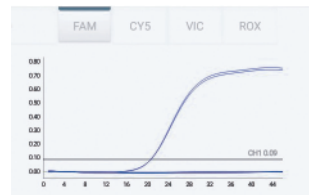


- 2 Portable and light : the weight is only 4kg. It can be used with vehicle power supply for immediate on-site detection.

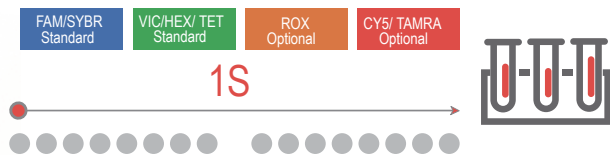
- 3 Ultra-fast temperature control system: unique liquid circulation refrigeration, Variable temperature rate up to 6°C/s



≤30min



- 4 Sensitive and efficient optical signal detection system, multi-channel fluorescence without crosstalk: based on unique Fresnel lens, high-efficiency PMT and maintenance-free LED. 16-hole scanning takes only 1s.



- 5 Compatible with 0.2mL PCR clear tubes or eight strips, can measure 16 samples at the same time.

- 6 Software functions can be customized.

- 7 4G data memory. Testing results can be exported with USB or printed.

Clinical Disease



Animal Diseases, Pet Infectious Diseases



Food Safety



Environmental Monitoring



Technical Parameters

Sample capacity	2 × 8 0.2ml tube/strips , clear
Reaction volume	10-50 μ l
Touch screen	YES
Thermal cycle technology	Peltier, liquid circulation refrigeration
Max. Heating/Cooling rate	≥ 6.0 $^{\circ}$ C/s
Heating temperature range	4 – 100 $^{\circ}$ C
Temperature accuracy	± 0.2 $^{\circ}$ C
Temperature uniformity	± 0.2 $^{\circ}$ C @60 $^{\circ}$ C ± 0.3 $^{\circ}$ C @95 $^{\circ}$ C
Excitation light source	Monochrome high efficiency LED
Detection device	PMT
Detection mode	Fast hole-by-hole scanning
Fluorescent channels	Standard : FAM/ SYBR, VIC/HEX/ TET Optional : ROX , CY5/TAMRA
Sensitivity	Single copy gene
Dynamic range	10 orders of magnitude copies
Analysis mode	CT value analysis, absolute quantitative analysis
Dimension [W × D× H]	220 × 275 × 100 mm
Power Supply	100-240V or Optional 12V, 10A mobile power
Weight	4kg
CV	$\leq 3\%$

