ultrassay

eQmini series

Real-time PCR System

eQmini is a high-performance model meticulously improved on the basis of the eQ164CP classic model. The instrument comes with a full-color touch screen and self-developed operation analysis software. It does not require a computer and realizes independent operation, program editing, data viewing and data analysis. The compact body design and powerful software functions fully meet the various needs of users for small-throughput experiments and outdoor operations.

Smart, Portable and Efficient!

- Touch screen control, with software, efficient and convenient
- Simple operation interface, powerful software function
- Strong fluorescence signal, low background noise, high sensitivity
- Unique design of Block, rapid temperature change, good uniformity

ULTRASSAY BIOTECH CO., LTD.

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Specifications of eQmini Series Real-time PCR System

Model	eQmini-A	eQmini-B	eQmini-C
Sample volume	16*0.2 ml single tube or 8-strip transparent tube (except for white opaque tube), you can mark the tube with markers on the cover of the tube.		
Applicable reagents	The system is an open platform, suitable for various real-time PCR reagents, including fast extraction reagents, non-extraction reagents or direct amplification reagents and other low-concentration PCR reagents.		
Reaction volume	5-100ul		
Dynamic range	1-10^{10} Copies		
Color wavelength	400~700nm		
Dyes and probes	CH1: FAM、SYBR Green I; CH2: HEX、JOE、VIC、ROX.		CH1: FAM、SYBR Green I; CH2: HEX、JOE、VIC、TAMRA; CH3: ROX、CALRED; CH4: CY5、QUASAR.
Excitation light source	High brightness and long life single color LED module.		
Optical sensor	PMT	PD	PD
Detection technology	Scientific grade, suitable for micro-reaction system.	Double PD detection, practical grade, suitable for conventional reaction system.	Four PD detection, independent excitation fluorescence detection, suitable for multiple PCR.
Channel number	2-fluorescent channel		4-fluorescent channel
★ Unique design of DFD photoelectric module	①DFD two-dimensional precision optical module, independent excitation light for each channel, independent fluorescence detection, strong signal, low background noise. It is especially suitable for fluorescent quantitative PCR experiments with low-concentration DNA reagents such as direct amplification reagents, extraction-free reagents, and quick extraction reagents. ②All channels are detected in one scan, and each channel only needs 1 second.		
Sensitivity	1 copy		
Rn	⩾0.998		
CV	CV⩽0.6%		
Block setting range	10-99.9°C		
Temperature control mode	Tube mode. Real temperature of simulated reagent.		
Refrigeration technology	Peltier		
★ ETSC block temperature equalization technology	The know-how of block edge temperature self-compensation design (ETSC) not only reduces the weight of the block, but also achieves excellent temperature uniformity, which effectively shortens the time of PCR experiment.		
Precision of temperature control	⩽0.1°C		
Display resolution	0.1°C		
Temperature accuracy	⩽0.2°C		
Temperature uniformity	⩽±0.2°C		
Max. ramping rate	⩾4°C /s		
Avg. ramping rate	⩾2.5°C /s (50~90°C)		
Hot lid	30-105°C, Default 105°C.		
Operating mode	Touch screen control, with software.		
Com. interface	RS232./USB		
Software functions	It has system parameter setting (with password authority), experimental parameter setting, sample information input, operation management, data export EXCEL, PCR program overview, real-time amplification curve display, channel crosstalk correction, criterion setting, automatic report, curve capture and other functions.		
Analytical functions	Standard Curve, Relative Quantitative Curve and Melting Curve (HRM).		
Operating indicator	Power on, in operation, successful communication, ultraviolet degradation (UV), fault alarm, hot lid open alarm.		
operating ambient	Ambient temperature: 10-30°C, relative humidity: 20-85%RH, elevation not higher than 2000 m, storage temperature: -20-60°C.		
Input power	100-240V~300VA		
Dimensions (L*W*H)	265×334×172mm		
Net weight	6.8kg		

★ Refers to the unique technology .

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