



eQmini-S

Real-time PCR System

An operation experience like using a mobile phone

CE



EASTWIN SCIENTIFIC EQUIPMENTS INC.

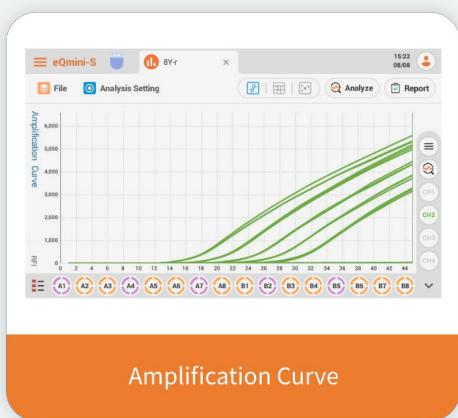


eQmini-S is a high-performance model meticulously improved on the basis of the eQ164CP classic model. It has two specifications with 2 fluorescence channels and 4 fluorescence channels. The device is equipped with an Android touch screen and self-developed operation and analysis software. It does not 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.



Introduction

Experimental data



Dual dimension Fluorescence photoelectric module Detection (DFD), strong fluorescence signal, low background noise, high sensitivity.

Android system, touch screen, built-in software, efficient and convenient.

Support multiple instrument monitoring on mobile phone.

Compact, animated interface with powerful software functions.

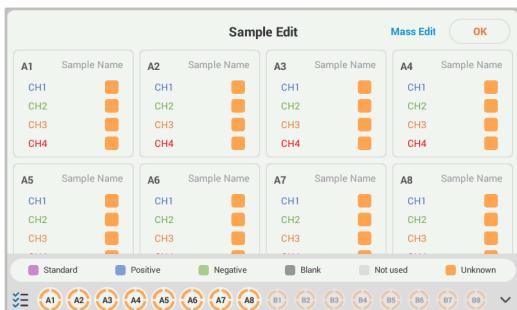
Light temperature control module, good ramp rate, nice uniformity.

Small and portable.

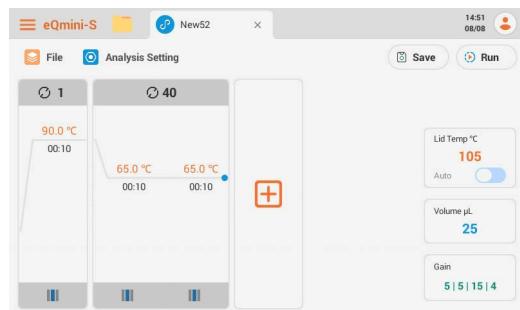
Built-in multiple report templates for users to choose or customize, Can be directly connected to the printer.

Features

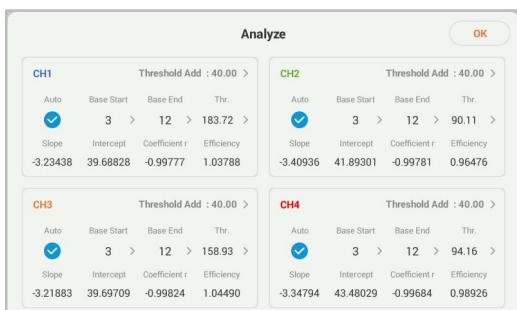
Software Interface



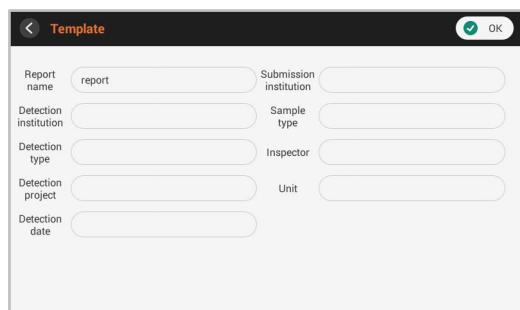
Sample Edit



Program Edit



Analyze



Report Template

Model	eQmini-S
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	5-100 μ L
Dynamic range	1-10 ¹⁰ Copies
Color wavelength	400~700nm
Dyes and probes	CH1: FAM/SYBR Green I CH2: HEX/JOE/VIC CH3: ROX/Texas Red CH4: CY5
Excitation light source	High brightness and long life single color LED module.
Optical sensor	PD
Detection technology	Four PD detection, independent excitation fluorescence detection, suitable for multiple PCR.
Channel number	4 channels (2 channels can be customized.)
★ Unique design of DFD photoelectric module	① DFD 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. ② All channels are detected in one scan, and each channel only needs 1 second.
Sensitivity	1 copy
Rn	≥ 0.998
CV	CV $\leq 0.6\%$
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 design 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	$\leq 0.1^\circ\text{C}$
Display resolution	0.1°C
Temperature accuracy	$\leq 0.2^\circ\text{C}$
Temperature uniformity	$\leq \pm 0.2^\circ\text{C}$
Max. ramp rate	$\geq 4^\circ\text{C} / \text{s}$
Avg. ramp rate	$\geq 2.5^\circ\text{C} / \text{s}$ (50~90°C)
Hot lid	30-105°C, Default 105°C.
Operating mode	Touch screen control, with software.
Com. interface	USB 2.0
★ Biodegradation function	Built-in UV scan degradation function
Software functions	Program edit, sample edit, gain setting, parameter setting, judgement setting, program run/stop, analysis, report settings,etc.
Analytical functions	Amplification curve, table, standard curve, melting curve.
Operating indicator	Failure warning, FN (UV) indicator, Communication instructions, Run indication, Open instructions, Power supply.
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~, 50/60Hz, 300VA
Dimensions (L*W*H)	Product size: 341*274.5*188mm Carton size: 387*302*273mm
Weight	Net weight: 6.8kg Gross weight: 11.8kg

★: Refers to the unique technology or know-how of EASTWIN.

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