

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.



7 inch
Touch screen

Status indicator

Model

Hot lid

2*8 variable
temperature block

Open lid button

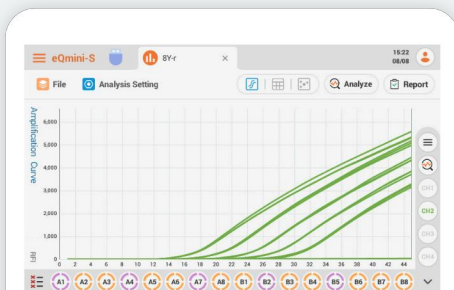
Air outlet

Upper shell

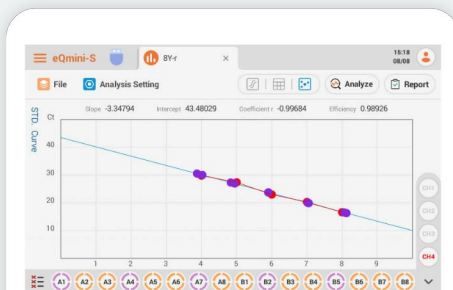
USB*2

Introduction

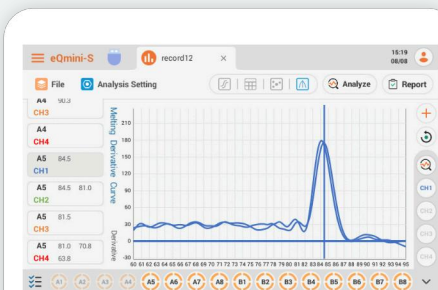
Experimental data



Amplification Curve



Standard Curve



Melting Curve

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 Mass Edit OK

A1	Sample Name	A2	Sample Name	A3	Sample Name	A4	Sample Name
CH1		CH1		CH1		CH1	
CH2		CH2		CH2		CH2	
CH3		CH3		CH3		CH3	
CH4		CH4		CH4		CH4	

A5	Sample Name	A6	Sample Name	A7	Sample Name	A8	Sample Name
CH1		CH1		CH1		CH1	
CH2		CH2		CH2		CH2	
CH3		CH3		CH3		CH3	

☐ Standard
 ☐ Positive
 ☐ Negative
 ☐ Blank
 ☐ Not used
 ☐ Unknown

☒ A1
 ☒ A2
 ☒ A3
 ☒ A4
 ☒ A5
 ☒ A6
 ☒ A7
 ☒ A8
 ☐ B1
 ☐ B2
 ☐ B3
 ☐ B4
 ☐ B5
 ☐ B6
 ☐ B7
 ☐ B8

Sample Edit

eQmini-S New52 14:51 08/08

Analysis Setting Save Run

1 40

90.0 °C 00:10
 65.0 °C 00:10
 65.0 °C 00:10

Lid Temp °C 105
 Auto ☐

Volume µL 25
 Gain 5|5|15|4

Program Edit

Analyze OK

CH1	Threshold Add : 40.00 >	CH2	Threshold Add : 40.00 >
Auto <input checked="" type="checkbox"/>	Base Start 3 > Base End 12 > Thr. 183.72 >	Auto <input checked="" type="checkbox"/>	Base Start 3 > Base End 12 > Thr. 90.11 >
Slope -3.23438	Intercept 39.68828	Slope -3.40936	Intercept 41.89301
Coefficient r -0.99777	Efficiency 1.03788	Coefficient r -0.99781	Efficiency 0.96476

CH3	Threshold Add : 40.00 >	CH4	Threshold Add : 40.00 >
Auto <input checked="" type="checkbox"/>	Base Start 3 > Base End 12 > Thr. 158.93 >	Auto <input checked="" type="checkbox"/>	Base Start 3 > Base End 12 > Thr. 94.16 >
Slope -3.21883	Intercept 39.69709	Slope -3.34794	Intercept 43.48029
Coefficient r -0.99824	Efficiency 1.04490	Coefficient r -0.99684	Efficiency 0.98926

Analyze

Template OK

Report name report Submission institution

Detection institution Sample type

Detection type Inspector

Detection project Unit

Detection date

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	5-100µL
Dynamic range	1-10 ¹⁰ Copies
Color wavelength	400~700nm
Dyes and probes	CH1: FAM/SYBR Green I CH2: HEX/JOE/MIC 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≤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	≤0.1°C
Display resolution	0.1°C
Temperature accuracy	≤0.2°C
Temperature uniformity	≤±0.2°C
Max. ramp rate	≥4°C /s
Avg. ramp 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	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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