Model	eQ9600
Sample volume	96*0.2ml single tube, or 8-strip tube, no skirt plate, half skirt plate (bottom transparent 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	320~900nm
Dyes and probes	CH1: FAM、SYBR; CH2: HEX、VIC、JOE、TET; CH3: ROX、RED; CH4: CY5; CH5: customized; CH6: customized
★ Excitation light source	High brightness and long life single color LED module.
Optical sensor	High sensitivity photodiode module (PDM).
Channels	4 channels/6 channels (4 standard channels + 2 customized)
★Proprietary DDSOM photoelectric module	DDSOM: Dual Dimension Scan Optical Module. ① Independent excitation light for each channel, independent fluorescence detection, strong signal and 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 One scan completes the detection of all channels , 4 channels detection only takes 16s. ③ Solid-state electronic optical data collection.
Sensitivity	1 copy
Rn	⩾0.980
CV	⩽3%
Block setting range	10-99.9°C
Temperature control mode	Tube mode (intelligently simulate the real temperature of the reagent according to the sample volume).
★Temperature control technology	Exclusive Peltier technology.
★ Proprietary thermal system design	Considering the temperature change rate and temperature uniformity, EASTWIN's exclusive thermal system design effectively shortens the PCR experiment time.
Precision of temperature control	⩽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	Operate through PC (provided by customer). one PC can be used to control multiple PCR machines to form N*96 PCR array to run N PCR experiments simultaneously, which is flexible and changeable.
PC operating system	Windows7/10
Com. interface	RS232./USB
Software functions	① Compatible with various types of reagents (magnetic beads reagents, turbidity reagents, etc.) ② Support multiple algorithms for data correction (magnetic beads correction, turbidity correction, crosstalk correction, curve optimization, etc.) ③ Common Program Templates (pre-denaturation, 3-step amplification, constant temperature amplification by RAA/RPA) ④ Firmware upgrade function ⑤ Standard Curve Import & export function.
Number of program segments	⩽20
Number of program sections	⩽20
Analytical function	Absolute quantitative, relative quantitative, melting curve(HRM).
Reports	Preset human/animal experiment report templates, and customize report templates, result judgments, fluorescence analysis curves, and report printing.
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 2000m.
Input power	100-240VAC 50~60Hz 800W
Dimensions (L*W*H)	Product size：428*305*202mm (A3 paper size) Carton size：540*450*385mm
Weight	Net weight：12.5kg Gross weight：14.5kg

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

EASTWIN

EASTWIN SCIENTIFIC EQUIPMENTS INC.

Add: F2,Block B,Building 10,#78 Xinglin Street,Suzhou P.R.China

Tel: (+86)0512-85550818 Fax: (+86)0512-89188841

E-maill: info@eastwin.com Web: http://www.eastwin.com

Enterprises Owned by NKY Medical Group(Stock Code 300109)

(+86) 400-086-6869

EASTWIN

eQ9600 Series

Real-time PCR System

The eQ9600 series product is a 96-well high-throughput real-time fluorescent quantitative PCR detection system released by EASTWIN following the eQ1600 series. This product adopts the DDSOM two-dimensional scanning photoelectric module technology and thermal system design, the unique technology of EASTWIN, achieving product characteristics of strong photoelectric signal, high sensitivity, low background noise and light weight. Coupled with powerful and friendly system software, it can be used for multiple gene detection, quantitative analysis, SNP analysis, melting curve analysis and other experiments.

This system is suitable for polymerase chain reaction and quantitative detection in immunology, human genome engineering, forensic medicine, epidemiology, oncology, tissue and population biology, paleontology, zoology, botany and other fields.

Simple Appearance and Powerful Device

For research use only

EASTWIN SCIENTIFIC EQUIPMENTS INC.

www.eastwin.com

EASTWIN

Features

01 System Parameters

96-well high-throughput
2/4/6 channels simultaneous detection

02 Appearance

Simple and lightweight
A3 size

03 Optical Performance

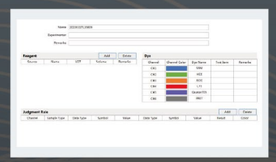
Strong Fluorescence Signal, Low Background Noise , High Sensitivity

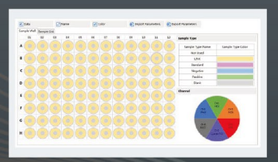
- Independent excitation light for each channel, independent fluorescence detection, strong signal and low background noise. It is especially suitable for fluorescent quantitative PCR experiments with low-concentration DNA reagents such as direct amplification reagents, extraction-free reagents, and quick extraction reagents.
- 1 scan to complete all channel detection, fast detection speed.
- Solid-state electronic optical data collection, stable and reliable.

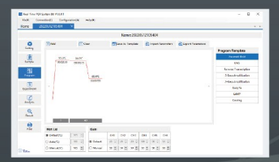
04 Software System

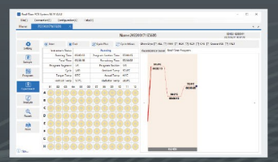
Simple Software Interface, Powerful System Functions

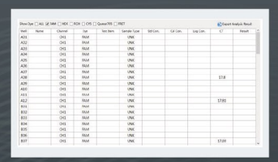
- The operating software adopts windows10 interface style and operating habits, which is easy to use for customers.
- The system has parameter setting (with password authority), experimental parameter setting, sample information input, operation management, data export EXCEL, PCR program overview, real-time amplification curve display, channel crosstalk correction, criterion setting, automatic report, curve picture capture and other functions.

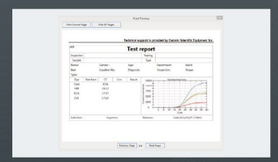

Setting


Sample


Program


Experiment

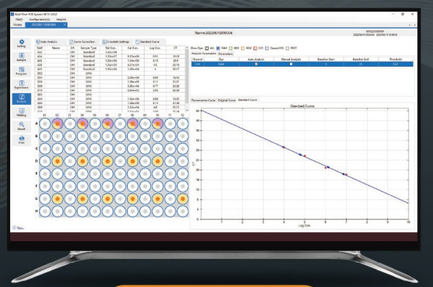

Result

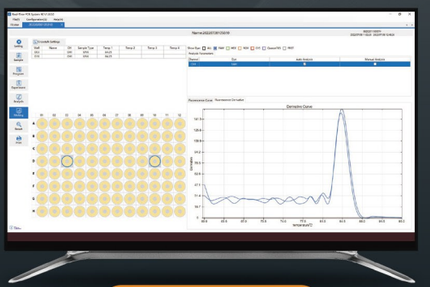


Print


Fluorescence Intensity Curve


Log Fluorescence Curve


Standard Curve


Melting Curve

05 Temperature Performance

Lightweight Temperature Control Block, Rapid Temperature Change Good Uniformity

- Adopting the EASTWIN's proprietary thermal system design, which not only reduces the weight of the module, but also obtains excellent temperature uniformity, for effectively shortening the PCR experiment time.
- Long-life semiconductor cooler (Peltier) is used for cooling.