



# ES-FQD96C

Real-Time PCR Detection System



LABORATORY



## Features



6-partition independent temperature control



Fully automatic sample cavity



The Window 10 system



Popular 6 channel configuration

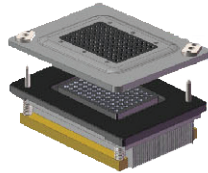


Top detection, No calibration required

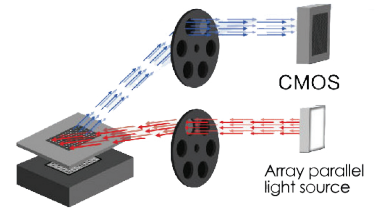


Optical path:

- Adopt new generation high sensitive CCD
- All new optical design and vision algorithm



- Hot-lid: improve temperature uniformity
- Cooling and heating block:
  - \* Adopt long life peltier
  - \* With 6 independent temp. control zones.
  - \* Adaptable for multiple PCR tubes, Strips and plates



- All new array parallel light source, improve exciting light effect, intensify fluorescence signal
- Use independent filter wheels for exciting and emission, no need expand channel for second exciting detection test.
- Adopt cluster conduction design of imported high-end optical fibers. to improve fluorescence signal intensity and reduce photo conduction loss
- Adopt top imaging technology, takes 1 second max for 1 channel detection

## Technical parameters

Model	<b>ES-FQD96C</b>					
Sample Capacity	0.2ml single tube (transparent cap), 96×0.2ml Plate (transparent cap), 8-strip tubes (transparent cap)					
Reaction Volume	10-100ul (96 plate)					
Dynamics Range	1-10 <sup>10</sup> Copies/L					
Excitation Wavelength	300~800nm					
Emission Wavelength	500~800nm					
Block Temp. Range	4-105 °C (Minimum Increment: 0.1°C)					
Temp. Control Mode	BLOCK/TUBE simulation mode					
Temp. Control Technology	Peltier					
Temp. Display Resolution	±0.15°C					
Temp. Uniformity	≤±0.2°C					
Maximum Heating Rate	6.5°C/s					
Gradient Control Section	6 Independent temp. control zone					
Hot-lid Temp	Range: 30-110°C					
Detection Channel	F1	F2	F3	F4	F5	F6
Fluorescence Dyes	FAM, SYBR GreenI	VIC, HEX, TET, JOE, TAMRA, CY3, NED	ROX, Texas-Red	Cy5	Cy5.5	For Customized
Power Supply	100-240V, 50/60Hz 1000W					
Communication Interface	USB adapter (to PC), bluetooth adapter					
Sensitivity	Distinguish 500 and 1000 concentration					
Dimension	490mm*290mm*391mm					
Net Weight	28KG					
Safeguard And Alarm	Hot-lid over heat protection and alarm, switching power supply over heat protection					
Certifications	CE/RoHS					



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