



# Quantitative Real-time



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Darsun Scientific

# Quantitative Real-time



## PCR-16-wells

Can detect 16 samples at the same time, and the standard configuration is FAM/SYBR, VIC two-color fluorescence channels. Lightweight & compact and supports stand-alone operations. Adopts innovative liquid cycle refrigeration technology combined with peltier temperature control technology to achieve rapid heating and cooling. It offers CT value analysis, absolute quantitative analysis, supports isothermal amplification and end point analysis.

### Specification

- 1. Stand-alone use, compact design, easy to carry
- 2. Humanized software design, simple operation
- 3. Sensitive and efficient light signal detection system, with no crosstalk in multi-channel fluorescence and good sample detection stability
- 4. Two-channel or four-channel fluorescence detection systems optional, can achieve multiple fluorescence quantitative detection
- 5. Advanced semiconductor heating technology, fast heating and cooling, short detection time
- 6. 32G data memory, excel format or pictures can be kept through U disk, easy management

Model	DSQP16C2	DSQP16C4
Sample capacity	16 × 0.2ml PCR tube/ 2 × 0.2ml 8-strip tube	
Reaction volume	10–50 µl	
Display	7-inch color touch screen	
Thermal cycling	Peltier	
Max temp change rate	6°C/s	
Block temp control	10–100°C	
Hot lid temp range	30–105°C	
Temp accuracy	±0.2°C	
Temp uniformity	±0.2°C @ 60°C / ±0.3°C @ 95°C	
Excitation light	LED	
Detection module	MPPC	
Detection mode	Linear individually scan	
Fluorescence channels	FAM/SYBR, VIC/HEX/TET	FAM/SYBR, VIC/HEX/TET, ROX, CY5/TAMRA
Sensitivity	Single copy gene	
Dynamic range	10 orders of magnitude copies	
Analysis mode	CT value / absolute quant analysis	
Dimension (mm)	225 (L) × 270 (W) × 132 (H)	
Weight	4 kg	
Power supply	100–240V, 50/60 Hz	