

Quantagene q225 qPCR System – Specifications

General

Weight	5 Kg
Dimensions	W×D×H: 16×19×26 cm
Reaction volumes	1-20 µl (5-10 µl recommended)
Sample format	mini 96-well microplate

Hardware

Thermal cycling system	Peltier-based block
Max ramp rate heating/cooling	about 4 °C/s
Temperature range	4-100 °C
T_M uniformity*	±0.15 °C
Excitation	Blue + Green LED, 457 nm + 525 nm
Detection	CMOS sensor
C_t uniformity*	full plate C _t SD < 0.03, enabling resolution of < 10% concentration differences at triplicates

*Performances are partially determined by reagents.

Run & Analysis

Disposables	mini 96-well microplates and sealing films
Connection	802.11b/g/n WIFI network
Dynamic range	10 ⁰ -10 ⁹ copies/assay
Passive reference dyes	not necessary
Run time	43 min for 40-cycle quantitative PCR (as fast as 25 min)
Operating systems	support Windows 7, 8, 8.1 or 10
Data export	results & raw data can be exported as .xls file; figures can be exported in multiple formats