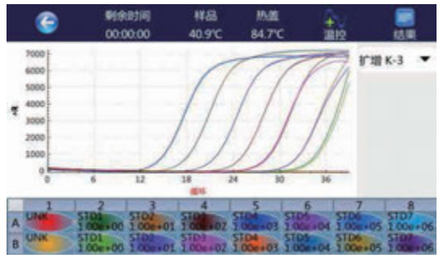
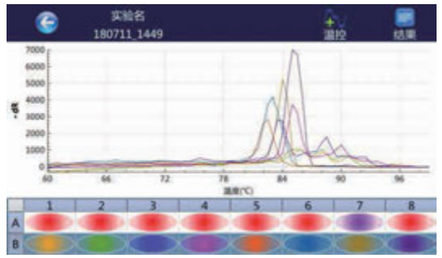
SOFTWARE FUNCTION

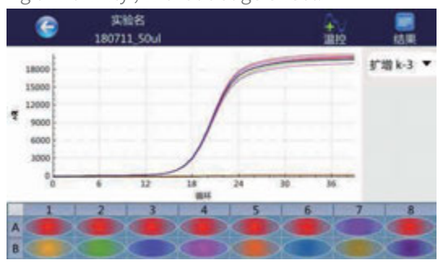
1. All operations can be done with the built-in 7” touch screen, no need for connecting a personal computer.
2. Quantitative PCR reagents and isothermal reagents are all usable. Pre-denaturation at 94 ° C for 30 seconds; 35 cycles (94 ° C denaturation for 3 seconds, 60 ° C annealing / extension for 20 seconds), the experiment can be completed within 40 minutes. With an isothermal reagent, the test can be completed in 20 minutes.
3. High sensitivity, even one viral molecule can be detected.



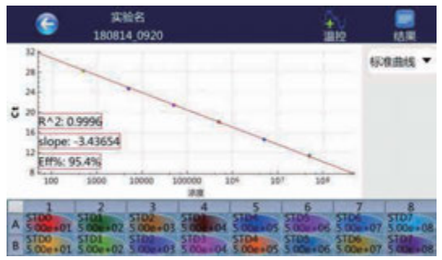


4. The software directly gives an intuitive yes or no result, so users don't have to think about complicated software operations and parameter settings, it's very easy to get started. At the same time, the automatic judgment of the software can also avoid the misjudgment caused by the manual judgment.

5. Fluorescence signals for all wells are of outstanding uniformity , without edge effect.



6. Accurate quantification by standard curve.



CYCLOUD

Portable Mini Real-Time PCR Cycler

[Q160]

MAIN ADVANTAGE

FAST,

1. Fast ramping rate of up to 5°C/sec.
2. All things done on instrument directly without connecting a personal computer.
3. Simultaneous detection of 16 samples takes only 1 second.
4. Non-mechanical scanning detection.

ACCURATE,

1. T-Optical TM top detection technology,white PCR tube can be used, with better sensibility.
2. Long-life Peltier technology with more than 1 million thermal cycles.
3. Fluorescence signals of outstanding uniformity for all wells, without edge effect.

STABLE,

1. Optical system solid state design, no moving parts.
2. Non-mechanical scanning parts, non-fiber needed, on-photomultiplier tube design.
3. Reliable design greatly reducing maintenance costs.

LIGHT,

1. Small size, light weight (only 3.6KG), easily portable.
2. Optional mobile power supply for outdoor work.

TECHNICAL PARAMETERS

Model	Q160
PERFORMANCE	
Sample Block Capacity	16 wells * 0.1ml
Reaction Volume	10-100ul
Tubes Option	Low-profile white or clear 0.1 ml PCR tube/8-tube strips with optical flat cap
Heating & Cooling Technology	New generation Peltier technology allow 1,000,000 cycles
Display	7'' Color TFT Touch Screen,Edit, run and view results at a glance
Language	English and Chineses
Communication Ports	USB 2.0 & LAN, export data via USB flash drive
Optical system	Solid-state design without moving parts
TEMPERATURE	
Block Temp.Range	4°C~100°C
Max. Heating Rate	5°C/sec
Max. Cooling Rate	4°C/sec
Temp.Uniformity	±0.25°C (at 90°C)
Temp.Accuracy	±0.25°C (10 seconds after reach 90°C)
Display Resolution	0.1°C
Heat Lid Temp.Range	30°C~105°C
Temp.Control Mode	Block & Sim-tube mode
OPTICAL MODULE	
Excitation	Long life LED
Detection	32 High sensitivity photoelectric detectors
Dynamic Range	10^1 – 10^{10}
Detection Sensitivity	Detects 1 copy
Fluorescence Detection Type	T-Optical TM excitation & top detection technology
Calibrated Dyes at Installation	Channel 1：FAM、SYBR, Channel 2：VIC、HEX、JOE
Fluorescence Excitation Range	470-500nm
Fluorescence Detection Range	Channel 1: 520—540nm, Channel 2: 540—700nm
Data Export Formats	Excel , TXT
OTHER FEATURES	
Power	Global switch power supply: 100-240V，50-60 Hz
Consumption	160 W
Net Weight	3.6kg
Dimensions (L X W X H)	305×179×186mm