NeoReal

16 wells RealTime PCR System

NB-12-3030
NB-12-3030-1

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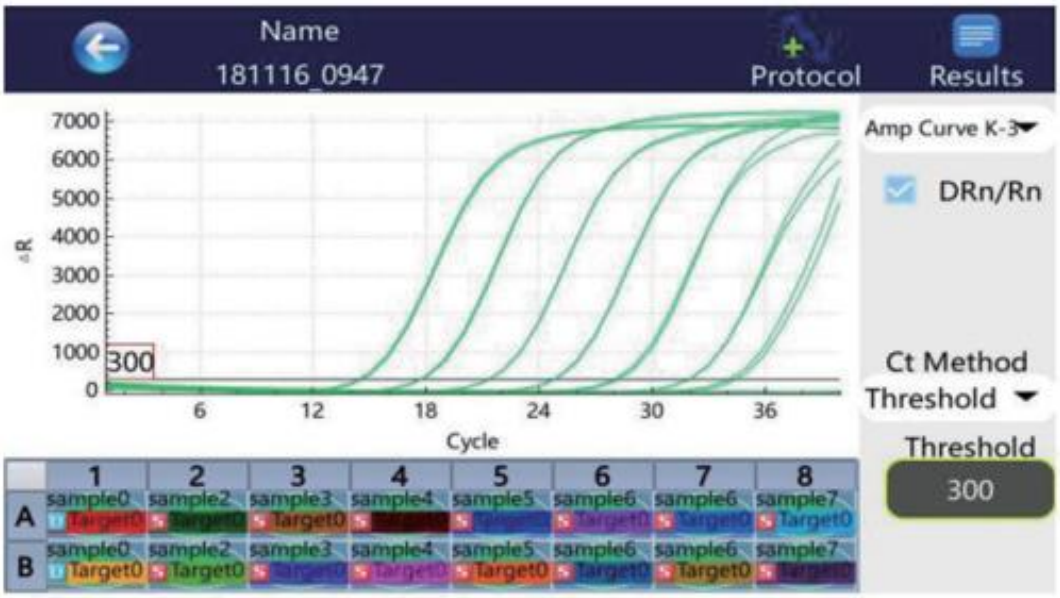
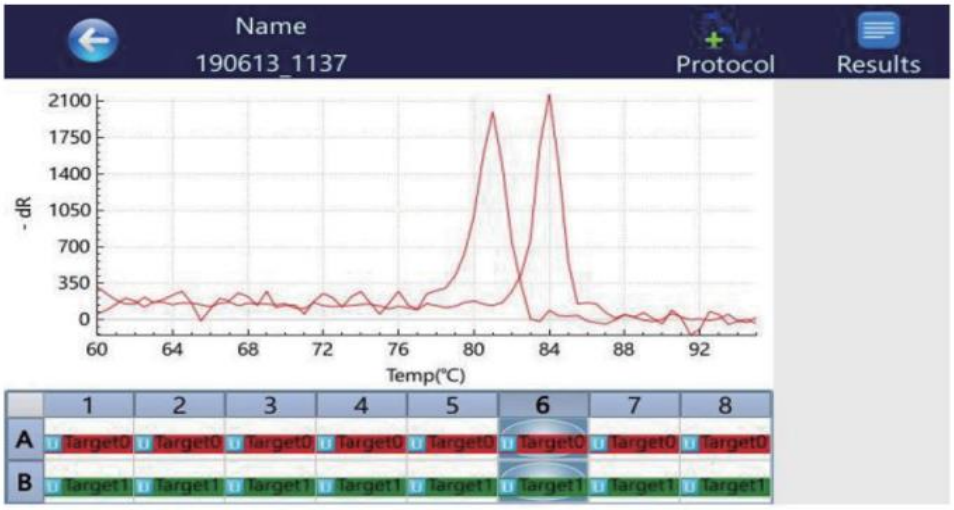
#Cat:NB-12-3030 (160-2 channels)
#Cat:NB-12-3030-1 (160C-4 channels)

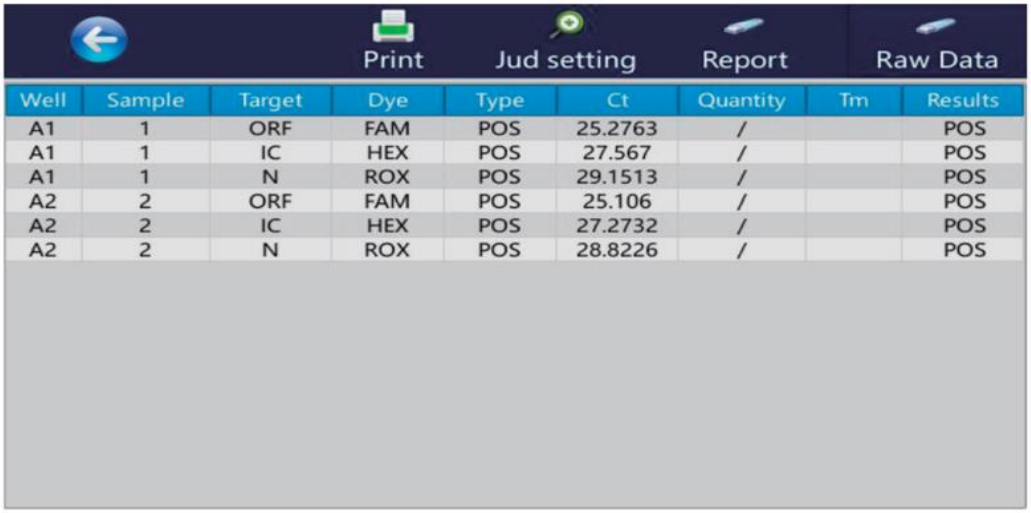
Software Function

1. All operations can be done with the built-in 7” touch screen, no need for connecting a personal computer.
2. Simple and intuitive program, qPCR plate setup, easy to use, without prior reading the user guide thoroughly.
3. Standard curves for absolute quantification. Melt-curve to verify product identity.



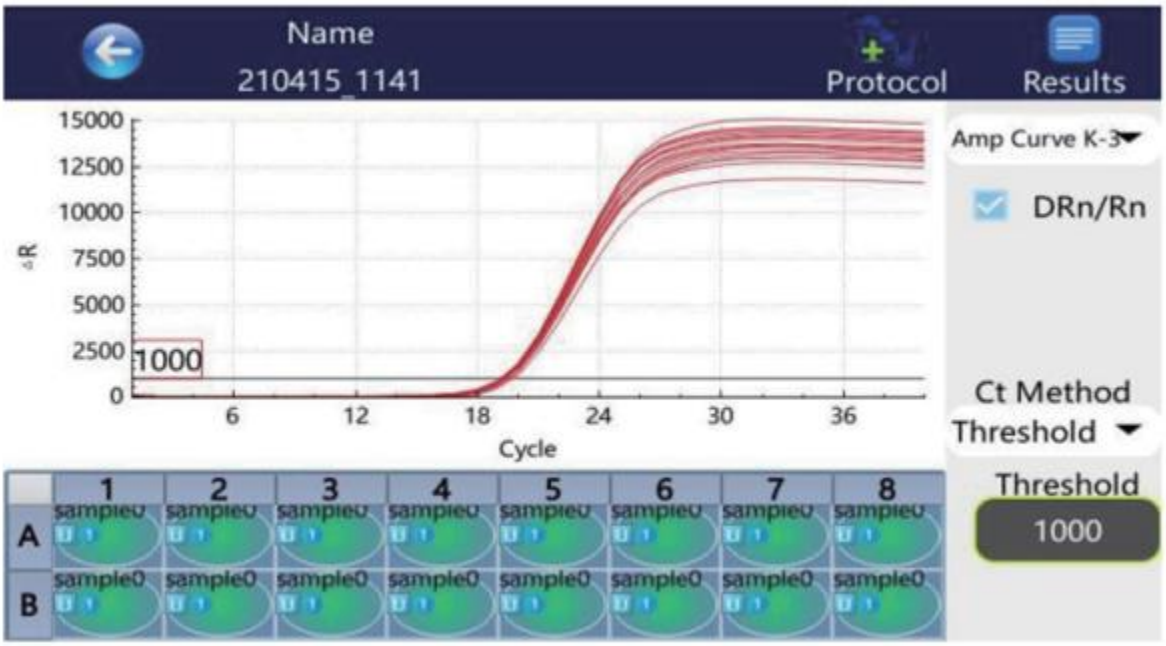


4. The software directly gives an intuitive yes or no result, so users don't have to think about complicated software operations and parameter settings, it's very easy to get started. At the same time, the automatic judgment of the software can also avoid the misjudgment caused by the manual judgment.

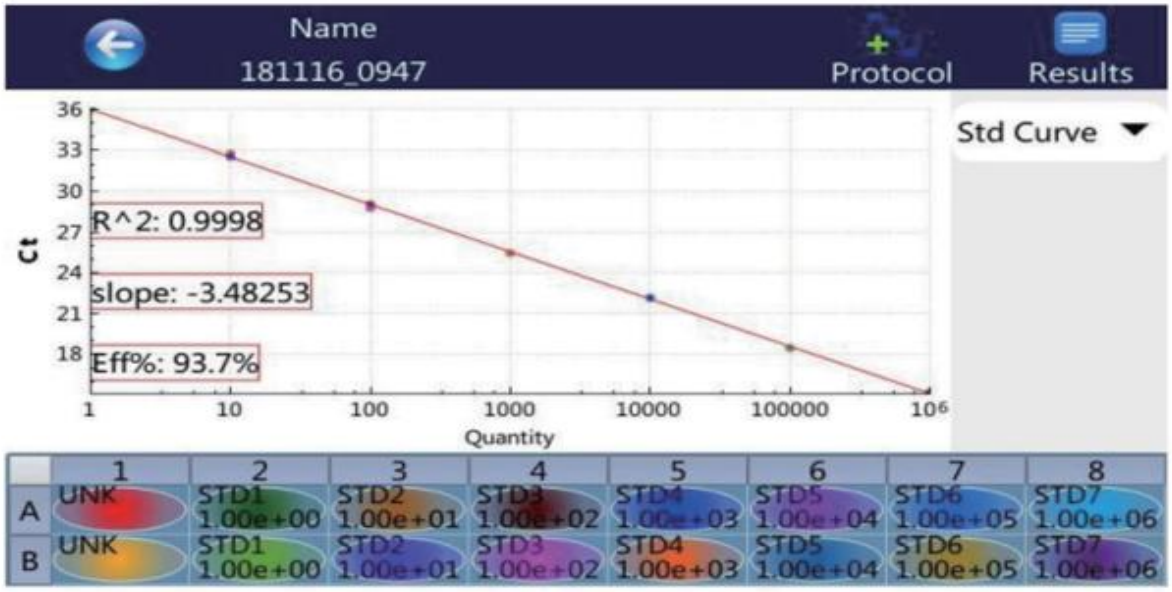


Well	Sample	Target	Dye	Type	Ct	Quantity	Tm	Results
A1	1	ORF	FAM	POS	25.2763	/		POS
A1	1	IC	HEX	POS	27.567	/		POS
A1	1	N	ROX	POS	29.1513	/		POS
A2	2	ORF	FAM	POS	25.106	/		POS
A2	2	IC	HEX	POS	27.2732	/		POS
A2	2	N	ROX	POS	28.8226	/		POS

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



6. Accurate quantification by standard curve.



Main Advantage

Fast

1. Fast ramping rate of up to 5°C/sec.
2. Operation on instrument directly without/with PC
3. Wells 2 /4 channels optional.
4. Innovative CCD imaging technology for qPCR, fluorescence of all sample holes is detected at the same time.

Accurate

1. Advanced top detection technology, allowing the use of white PCR tubes and providing improved sensitivity.
2. Long-life Peltier element could reach more than 1,000,000 thermal cycles.
3. Fluorescence signals of outstanding uniformity for all wells, without edge effect.

Stable

1.Optical system of solid-state design, no moving parts.
2. Non-mechanical scanning parts, non-fiber, non PMT 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	NB-12-3030(160)	NB-12-3030-1(160C)
Performance		
Sample block capacity	16 wells*0.1ml	
Reaction volume	10-100µl	
Tubes option	Low-profile white 0.1 ml PCR tube/8-tube strips with optical flat cap	
Heating and cooling technology	New generation Peltier technology allow 1,000,000 cycles	
Control Methods	Built-in full operation and analysis functions, no external computer required	
Optical system	CCD imaging technology	
Display	7” color TFT Touch screen, edit run and view results at a glance	
PC Connection (extra option)	Remote PC control to manage no more than 30 units across the LAN network	
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	
Temp accuracy	±0.1°C	
Display resolution	0.1°C	
Heat lid temp range	30°C ~112°C	
Optical module		
Excitation	Long life LEDs	
detection	CCDs	
Dynamic range	$1\text{-}10^{10}$	
Detection sensitivity	Detects 1 copy	
Calibrated dyes at installation	F1: FAM/SYBR GREEN F2: VIC/HEX/JOE/CY3/TET* (*Customizable)	F1: FAM/SYBR GREEN F2: VIC/HEX/JOE/CY3/TET* (*Customizable) F3: ROX/TEXAS-RED/ TAMRA* (*Customizable) F4: CY5/Quasar670
Fluorescence excitation range	400-800nm	
Fluorescence Detection range	500-800nm	
Data export formats	TXT, PDF, Word, Excel	

	Other features
Power supply	100-240V, 50-60Hz
consumption	160W
Communication ports	USB 2.0 and LAN, export data via USB flash drive
Dimensions (LxWxH)	305x176x186 mm
Net Weight	3.6 kg
Language	English
Certificate	ISO13485: 2016, ISO9001:2015, CE-IVDR, CE