

NeoReal 2000A

NB-12-3028-1

NeoReal 2000A - 2 channels RealTime PCR System

1. Powerful peltier technology from MARLOW, ensure long life of 1,000,000 thermal cycles and fast ramping rate up to 6°C/S
2. T-optical™ technology reduce background noise, improve fluorescence signal sensitivity and signal to noise ratio
3. Articulating display screen (The angle of display could be adjusted to the best view)
4. Synchronous detection (Simultaneous detection of wells, not in sequence)
5. self-contained touch screen (Users could view qPCR process and run PCR protocol through self-contained 10" TFT LCD and touch screen)
6. Innovative SSLP™ CCD imaging technology for qPCR, avoiding more moving parts problems like overheat, wear and off center. Not optical fiber based, avoiding break and block by dust. Long life LED
7. Gradient function remote control (Sample wells with temperature gradient function, convenient to optimize PCR conditions. Equipped with Neo Biotech's "Optimun qPCR Design& Analysis Software" for remote operation of instruments and analysis of results)
8. Drawer design of sample block, makes it easier to pick and place PCR tubes and plates
9. Lifetime free for software upgraded



TECHNICAL SPECIFICATIONS

Instrument Performance

Sample Block Capacity	96wells*0.1ml
Reaction Volume	10-50µl
Tubes Option	White or clear PCR tubes or strips or 96well PCR plate, with optical flat cap
Heating & Cooling Technology	Peltier technology allow 1,000,000 thermal cycles
Control Methods	Operated via PC or self-contaiend touch screen on instrument
Language	English
Communications	USB2.0 or LAN
Display	10"Color TFT LCD and Touch Screen, view angle adjustable
Max.Number of programs	Max. 15,000 programs onboard, unlimited storage of pretocols with USB flash drive

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Certified Non CE-IVD

Temperature

Block Temp.Range	0~105°C
Max.Heating Rate	6°C/sec
Max.Cooling Rate	5°C/sec
Temp.Uniformity	≤±0.2°C (at 90°C)
Temp.Accuracy	≤±0.2°C (at 90°C)
Display Resolution	0.1°C
Heat Lid Temp.Rage	30°C~112°C
Temp.Control Mode	Block & Calculated sample
Gradient Range	30°C-105°C
Temp.differential Range	0.1°C-42°C

Fluorescence Detection

Excitation	Long life LED lanps
Detection	CCDs
Dynamic Range	1-1010
Sensitivity	≥1 copy
Calibrated Dyes at installation	F1 : FAM, SYBR Green F2 : VIC, HEX, TET, JOE, CY3, NED
Fluorescence Excitation Range	300-800nm
Fluorescence Detection Range	500-800nm
Date Export Formats	Excel, TXT

Other Features

AC Power Supply	100-240V, 50-60Hz
Consumütion	600W
Net Weight	13kg
Dimension (L*W*H)	334*280*365mm
Operating Systems	Windows7, Windows10, WindowsXP