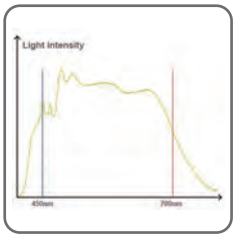
Real-Time PCR

960406 (96-wells)

960406 Real-time PCR is a 96 well quantitative fluorescence Real-time PCR System, equipped with a 10.1-inch high-definition color touch screen and built-in analysis software for intuitive operation and analysis. Combining the innovative thermal cycling system, accurate photoelectric detection system and intuitive software, the real-time PCR delivers precise and reproducible experimental results. The device also has two temperature control modes settings which enables you to control either block or tube temperatures.

- 96-well high-throughput
- Up to 6 channels
- Highly sensitive PMT detection
- Maximum 40°C gradient temperature

FEATURES



High-sensitivity

The full-spectrum high-power LED with high sensitive Hamamatsu photomultiplier tube top scanning, achieves higher sensitivity.

High-precision

High-precision temperature control guarantees the block temperature resolution at 0.1 °C and temperature uniformity of 0.1°C. Gradient temperature control range is 30-100°C and the maximum temperature difference is 40°C.

Automation

Sample tray automatically moves in/out, enabling integration with automated workstations/plate handlers.

Ergonomic design

The device is ergonomically designed, and the intuitive user interface delivers superior customer experience.

SOFTWARE DISPLAY

Built-in software

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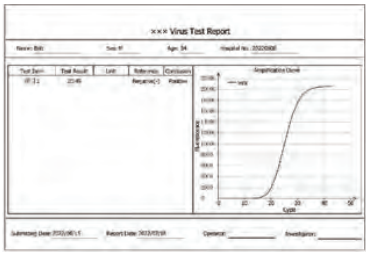
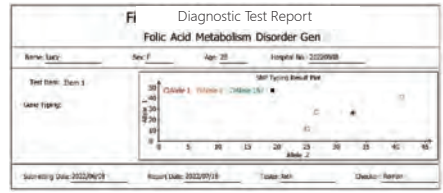
PC software





Reports

- 10.1-inch large touch screen, precise response, convenient operation.
- 6 fluorescence channels to meet a variety of experimental schemes.
- Preset templates + "Quick Run", starts experiment immediately.
- Can be integrated with Automated workstation/plate handlers for unmanned operations
- Flexible program settings to meet the individual needs of users.
- Built-in software and PC software for improved user's experience.

Model	960406
Throughput	96 well (12 × 8)
Applicable consumables	PCR single tube and strip of 0.2 ml, 96-well half skirted / no skirted plate; PCR single tube and strip of 0.1 ml, 96-well no skirted plate
Dynamic range	1-10^{10} copies
Detection location	Top detection
Excitation light wavelength	400-800nm
Detection wavelength	500-800nm
Fluorescence channels	6 channels
Fluorochrome/dye	Channel 1: FAM/SYBR Green I Channel 2: JOE/HEX/TET/VIC Channel 3: NED/TAMRA/Cy3 Channel 4: ROX/Texas Red Channel 5: Cy5 Channel 6: Cy5.5
Excitation light source	full-spectrum LED
Detector	PMT
Block temp. range	4~105°C
Block temp. accuracy	≤±0.1°C
Block temp. precision	≤±0.1°C
Block temp. uniformity	≤±0.1°C
Max heating & cooling rate of block	≥6°C/s
Gradient temp. difference	1-40°C
Block temp. control mode	Block mode, Tube mode
Sample volume range	5-100μL
Heated lid temp. range	30°C-110°C (default 105°C)
Fluorescence intensity	CV≤3%
Touch screen	Yes, 10.1-inch touch screen
Scan mode	Full plate scan or specified line scan
Software functions	Absolute quantification, Relative quantification, Melting curve, SNP genotyping, HRM, Quick run, etc.
Operating system	PC software (Windows 8 or higher), Built-in software
Ports	USB Type-A port × 2, USB Type-B port, RJ45 port
Power-off protection function	YES, data can be restored after power-on
Sample tray control mode	Sample tray automatically moves in/out, enabling integration with automated workstations/plate handlers.
Dimension (WxDxH)	320mm x 525mm x 420mm
Net weight	≤23kg
Thermal Cycling Technology	Peltier Module
Memory	8GB