

REAL TIME PCR SYSTEM



B16 REAL TIME PCR SYSTEM

B32 - Real-Time PCR System is a portable fluorescence quantitative PCR instrument developed by BR Biochem company. This product adopts four channel and double 16-well blocks, which can run two different files simultaneously. The product combines a variety of advanced technologies: 7-inch high-definition TFT color touch screen, win10 operating system with analysis software, complete quantitative analysis and printing report without computer. It adopts American Marlow custom-made peltier, high sensitivity photoelectric detector and side scan technology, to ensure superior performance and stable detection results.

Application: the product can be used for real-time detection in pasture, forest farm, breeding farm and water source. It is used for rapid diagnosis of disaster and epidemic disease, inspection and quarantine in the field of food safety, and scientific research in biological laboratories.

FEATURES:

- Four channels and double 16-well blocks design, can run two different programs at the same time.
- Small size, light weight, easy to carry.
- Powerful software analysis function, which can be used for Quantitative Analysis, Melting Curve Analysis, Genotyping, etc.
- 7-inch high-definition TFT color touch screen, and embedded win10 operating system.
- 20G flash memory can save 40,000 experimental data.
- Printer as an optional which can print the records directly, no need to connect the computer.

- Imported 32 bundled optical fibers are used to collect fluorescence from the side to increase the intensity of fluorescence signal and reduce light conduction damage.
- Black reaction block to avoid background noise.
- LED light source has the advantage of energy saving, environmental protection, long service life and maintenance free.
- The electromagnetic lock cover technology prevents the hot lid from accidentally opening.
- Front shutdown button makes file data more secure
- Constant current control circuit makes power output smooth and extends Peltier life, also improves temperature control accuracy
- It has the protection functions of over-current, over temperature, power-off data self recovery, etc.
- Forward and backward air vent design, can be placed side by side, saving laboratory space.

TECHNICAL PARAMETERS

MODEL	B161	B162	B164-Q
Sample Capacity	16×0.2ml(2×8well, dual block)		
Consumable	Clear 0.2 ml PCR tube/8-tube strips		
Reaction Volume	15-100μl		
Temperature control technology	Marlow customized Peltier allow 1.000.000 cycles		
Temperature Range	0-100°C (Resolution:0.1°C)		
MAX. Ramp Rate	6°C/s		8°C/s
Temperature fluctuation	±0.1°C		
Uniformity	±0.25°C		
Accuracy	±0.25°C		
Hot Lid Temperature	30-110°C ((Adjustable, default 105°C))		

Temperature Control	Block/Tube		
Excitation wavelength	F1:470nm	F1: 470nm F2: 523nm	F1: 470nm F2: 523nm F3:571nm F4:628nm
Emission wavelength	F1: 525nm	F1: 525nm F2: 571nm	F1: 525nm F2: 571nm F3:612nm F4:692nm
Factory Calibrated Dyes	F1: FAM/SYBR Green I	F1: FAM/SYBR Green I F2: HEX/VIC/JOE/TET	F1: FAM/SYBR Green I F2: HEX/VIC/JOE/TET F3: ROX F4: CY5
Excitation	Long life LED		
Detection	High sensitivity photoelectric detector		
Dynamic Range	1-1010 Copies		
Sensitivity	1 copy		
Feature function	Quantitative/qualitative analysis, Melting curve, Genotyping		
Date Export Formats	excel, csv, txt		
Printing	Report can be printed (optional USB thermal printer)		
Control Method	7 inch color TFT touch screen, Can be connected to computer control		
Communication	USB2.0		
Dimension	300x267x198mm (L x W x H)		
Net Weight	8KG		
Voltage	220VAC、50Hz		
Power	DC15V 255W		

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