

Product Introduction

MA-1600 can be equipped with a maximum of 3 fluorescence detection channels and a standard detection flux of 16 holes. It can complete all experimental operations and results analysis through the built-in touch screen. With small body design, optional external battery and other characteristics, this system can fully meet the user's needs for small flux experiments and doing experiments outside.



MA-1600 Series Portable
Real-Time Quantitative Thermal Cycler

Performance Parameters

Basic performance		
	MA-1620	MA-1630
Overall dimensions	320*250*177mm	320*250*177mm
Weight	4.5Kg	4.5Kg
Power supply	110V~240V, 50~60Hz	110V~240V, 50~60Hz
Noise level	45db	45db
Communication interface	USB	USB
Operating environment parameters		
Environment temperature	15~30℃	15~30℃
Relative humidity	≤85%	≤85%
Transportation and storage temperature	-20~55℃	-20~55℃
Transport and storage relative humidity	≤85%	≤85%
PCR system performance		
Tube capacity	16*0.2ml	16*0.2ml
Sample volume	20~120nl	20~120nl
Apply consumables	0.2ml PCR tube, 8*0.2ml PCR tube	0.2ml PCR tube, 8*0.2ml PCR tube
Temperature control range	4~99℃	4~99℃
Temperature accuracy	≤±0.1℃	≤±0.1℃
Temperature uniformity	≤±0.15℃	≤±0.15℃
Maximum heating rate	≥3.1℃/s	≥3.1℃/s
Average heating rate	≥1.5℃/S	≥1.5℃/S
Maximum cooling rate	≥2.9℃/S	≥2.9℃/S
Average cooling rate	≥1.5℃/S	≥1.5℃/S
Modular temperature control accuracy	≤0.1℃	≤0.1℃
Temperature duration accuracy	≤±1%	≤±1%
Heating/cooling	Semiconductor mode	Semiconductor mode
Hot cover	Electric heat cover	Electric heat cover
Fluorescence detection system performance		
Light source	High brightness LED	High brightness LED
Detector	PD	PD
Excitation and detection of propagation media	High temperature resistant professional fiber	High temperature resistant professional fiber
Linear range of samples	10 ⁰ -10 ⁸ copies	10 ⁰ -10 ⁸ copies
Sample linearity	R≥0.99	R≥0.99
Sample testing repeatability	CV<3.00%	CV<3.00%
Excitation wavelength	The first channel: 470nm±10nm The second channel: 525nm±10nm	The first channel: 470nm±10nm The second channel: 525nm±10nm The third channel: 570nm±10nm
Detection wavelength	The first channel: 520nm±10nm The second channel: 570nm±10nm	The first channel: 520nm±10nm The second channel: 570nm±10nm The third channel: 620nm±10nm