



*Tailored for **High-End**
Laboratory Needs*



Real-Time PCR System

RAPiCycler - 96

RAPiCycler 96

Real-Time PCR System

Designed to meet the experimental needs of high-end laboratories

With the 4 or 6 fluorescence channels, RapiCycler 96 can process 96 samples in one run

The system supports various downstream applications including Qualitative/quantitative analysis, absolute/relative quantitation, melting curve analysis, standard curve/dissociation curve analysis, Multiplex PCR, SNP genotyping, HRM, allele identification, temperature gradient function, etc.

Easy to process with the powerful and efficient temperature control system and fluorescence system.

Easy to-use software with user friendly operational designs.



Ordering Information

CAT #	Description
G2MBR4-0377	RapiCycler 96 Real Time PCR System (4 channel)
G2MBR4-0378	RapiCycler 96 Real Time PCR System (6 channel)

Areas of Applications

RapiCycler 96 Real-Time PCR System is a peltier based system designed for experimental analyses characterized by Polymerase Chain Reaction (PCR) for the purpose of DNA/RNA detection, and can be widely used in a variety of areas including:

- Clinical Diagnosis
- Epidemiological Monitoring
- Forensics & Scientific Research
- Food Safety

Salient Features

The real-time fluorescence quantitative PCR instrument uses semiconductor technology to quickly implement the PCR amplification process& uses a highsensitivity photoelectric detection system to detect the fluorescence signal in real time (standard/ fast mode), and analyzes and processes it through powerful analysis software

Sample dynamic range 1- 10¹⁰C

Wide Temperature range 4 - 100°C

Gradient range 1°C - 42°C

Scan Time 5second (for 96 wells)

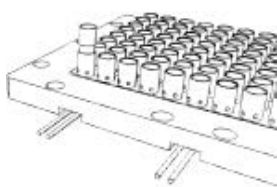
12.1 inch Adjustable Colour Touch Screen



Automated Heated Lid Control



Fluorescence Side Scanning Technology



Efficient Fluorescence System

- The 4 or 6 fluorescence channels compatible with most of the common fluorescent dyes and probes of regular detection reagents.
- Strong fluorescence signal, low background noise and high sensitivity.
- All channels are detected synchronously & all fluorescent channels of 96 samples are detected within 5s.
- Designed with LED light source, energy saving, environmental protection, long service life, and maintenance-free



Precise Temperature Control

- Designed with maximum heating ramp rate of 8°C/s for quicker completion of assay.
- With the temperature accuracy and uniformity of ± 0.2°C to ensure accurate results.
- With over-current, over-temperature, power-down data self-recovery and other protection functions to ensure the safe operation of the experiment.



User Friendly

- Integrated 12.1 inch Adjustable Colour Touch Screen & option to control via desktop software.
- one computer can control multiple instruments & can run multiple groups of experiments at any time.
- Automatic hot lid, which can be used with automated workstation to improve work efficiency.



Powerfull Software

- Capable of various data analyses to meet the needs of most experiments, including qualitative analysis, SNP genotyping, absolute quantitative analysis, relative quantitative analysis, genotyping, endpoint fluorescence analysis, melting curve analysis, pathogen detection, plus/minus assays etc.
- Software complied with security access, auditing & e-signature.
- Automated result interpretation and analysis report.

Specifications

Model No.	G2MRAP14001	G2MRAP14002
Sample Capacity	96 well, 12*8 strip, 96*0.2ml single tube	
Consumable	0.2ml tube, 0.2ml 8-tube strips, 0.2ml 96 well plate	
Reaction Volume	10-100µl	
Temperature Range	4-100°C(Resolution:0.1°C)	
Ramp Rate	upto 8.0°C/s	
Temperature Control Accuracy	±0.1°C	
Uniformity	±0.2°C	
Accuracy	±0.1°C	
Gradient	0.1-42°C	
Hot Lid Temperature	30-110°C(Adjustable, default 105°C)	
Hotlid opening mode	Automatic cover opening	
Temperature Control	Block/Tube	
Excitation Wavelength	300nm- 810nm	
Emission Wavelength	500nm- 810nm	
Detection Channel	4 channel	6 channel
Factory Calibrated Dyes	F1: FAM/SYBR-Green/EVA-Green F2: HEX/VIC/JOE/TET /YELLOW/CY3/NED /TAMRA F3: ROX/Texas Red F4: Cy5 / Quasar 705	F1: FAM/SYBR-Green/EVA-Green F2: HEX/VIC/JOE/TET/YELLOW/NIC F3: ROX/Texas Red F4: Cy5 / Quasar 670 F5: Cy5.5 / Quasar 705 F6: CY3/NED/TAMRA
Excitation	Long life LED	
Detection	High sensitivity photoelectric detector	
Dynamic Range	1-10 ¹⁰ Copies	
Sensitivity	1 copy	
Feature function	Qualitative/absolute quantification, relative quantitative, genotyping, HRM, melting curve, multiplex PCR, standard curve, relative standard curve, comparative Ct, allele identification/SNP genotyping, temperature gradient function, dissociation curve analysis, pathogen detection, plus/minus assays etc.	
Special Temperature Setting Function	Supports thermal gradient PCR, Long PCR, Touch Down PCR	
Control mode	12.1 inch adjustable colour touch screen control or PC control	
Date Export Formats	excel, csv, txt, pdf	
Printing	Report can be printed (optional USB thermal printer)	
Communication Parts	USB2.0, RS232	
Operating System for PC	Win7, Win 10	
Dimension	520x350x330mm(L x W x H)	
Net Weight	30.0KG	
Power Supply & Consumption	AC 100-240V, 50-60Hz; 1500W	
Powerful software for	Pre-calibrated with optimized algorithms to calculate crosstalk coefficients, ensuring minimal interference from overlapping fluorescence dyes. accurate detection	
Data collection	Synchronous multi-channel detection with side-scan technology captures fluorescence data for 96 samples in 5 seconds. All channels are collected by default, with post-run reconfiguration and reanalysis available.	



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