



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



**Real-Time PCR System**

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**RAPiCycler - 96**

# RAPiCycler 96

## Real-Time PCR System

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



Designed to meet the experimental needs of high-end laboratories

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.

### 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 high sensitivity 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-  $10^{10}$  C

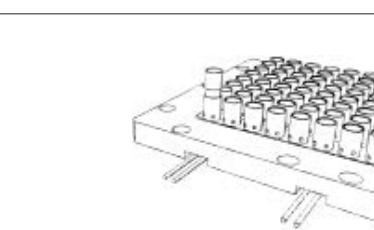
Wide Temperature range 4 - 100°C

Gradient range 1°C - 42°C

Scan Time 5second (for 96 wells)

#### 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



#### Fluorescence Side Scanning Technology

#### 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  $\pm 0.2^\circ\text{C}$  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.

### Ordering Information

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

## Specifications

| Model No.                            | G2MRAPI4001  | G2MRAPI4002  |
|--------------------------------------|--|--|
| 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                      | 10-100 $\mu$ l   |  |
| Temperature Range                    | 4-100°C(Resolution:0.1°C)  |  |
| Ramp Rate                            | upto 8.0°C/s   |  |
| Temperature Control Accuracy         | $\pm 0.1^\circ\text{C}$  |  |
| Uniformity                           | $\pm 0.2^\circ\text{C}$  |  |
| Accuracy                             | $\pm 0.1^\circ\text{C}$  |  |
| 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<br>F2: HEX/VIC/JOE/TET<br>/YELLOW/CY3/NED<br>/TAMRA<br>F3: ROX/Texas Red<br>F4: Cy5 / Quasar 705  | F1: FAM/SYBR-Green/EVA-Green<br>F2: HEX/VIC/JOE/TET/YELLOW/NIC<br>F3: ROX/Texas Red<br>F4: Cy5 / Quasar 670<br>F5: Cy5.5 / Quasar 705<br>F6: CY3/NED/TAMRA |
| Excitation                           | Long life LED  |  |
| Detection                            | High sensitivity photoelectric detector  |  |
| Dynamic Range                        | 1-10 <sup>10</sup> 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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