



Real-Time Quantitative Thermal Cycler

-FMR3

For Science For Health

Product Introduction

FMR3 adopts high-quality Marlow semiconductor thermoelectric module, combined with German high-end PT1000 temperature sensor and electrical resistance heating compensation edge temperature control mode, and transmits the fluorescence signals in 96 sample wells in real time to high signal-to-noise ratio through imported high-temperature resistant professional optical fiber. -20°C cold low temperature CCD for real-time detection; 5-color fluorescence channel detection platform is standard at the factory, maintenance-free full-wavelength tungsten halogen lamp of independent technology is used as the excitation light source, and it is operated through the built-in computer touch screen or an external computer, which is efficient and portable. It can be widely used in basic medical research, pathogen detection, molecular cloning, genetic screening, gene expression, genotyping, transgenic detection, food safety detection and public health epidemic monitoring and other industries and fields.

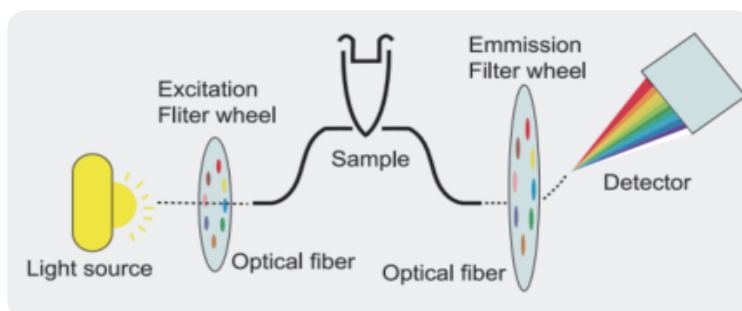
Key Advantages

- 01 Reliable: Temperature control system range from 4°C to 100°C
- 02 Efficient: Detection system has 6 zones independent temperature control
- 03 Rapid data acquisition
- 04 User-friendly software platform

Operation Principles

Specifications of optical system

Light source	halogen lamp.
Fluorescence detection range	380 to 780 nm.
Excitation wavelength	up to 5 channels (380 - 780 nm).
Emission wavelength	up to 5 channels (380 - 780 nm).



Product Parameters

Product Name	Real-Time Quantitative Thermal Cycler-FMR3
Sample capacity	96
Applicable consumables	0.2 ml single tube, 0.2 ml 8-tube strips, 96-well 0.2-ml plate
Reaction system	6 µl - 125 µl
Temperature control range	4°C - 100°C
Heating rate	5°C/sec (max) 3.5°C/sec (average)
Cooling speed	5°C/sec (max) 3.2°C/sec (average)
Temperature control accuracy	±0.1°C
Independent temperature zones	6 zones, combined with thermal compensation technology to reduce temperature edge effects
Gradient temperature range	1°C - 32°C
Gradient temperature selection range	30°C - 100°C (room temperature is lower than 28°C)
Excitation/detection range	380nm - 780nm
Number of excitation light channels	5 (expandable to 6 channels)
Detection components	-20°C CCD
Applicable dyes and probes	FAM/SYBR Green/Eva Green/LC, Green/Fluorescein, VIC/HEX/TET/Cy3/JOE/AI-exa555, ROX/Cy3.5/Texas Red, Cy5/LC Red640, Cy5.5/LC Red705, Tamara

Ordering Information

Cat.No	Product Name	Specification
FMR3	Real-Time Quantitative Thermal Cycler	96 flux

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