

REAL-TIME PCR SYSTEM (QPCR) - QUANTITATIVE THERMAL CYCLER TT- QPCR30



Real-Time PCR System (qPCR) – Quantitative Thermal Cycler TT-QPCR30 offers a compact, space-efficient design with a 3-well and 4-channel configuration, making it an excellent fit for laboratory benchtops. Its advanced optical fiber detection system ensures faster imaging and reduces overall cycling time, enhancing laboratory efficiency.

APPLICATIONS

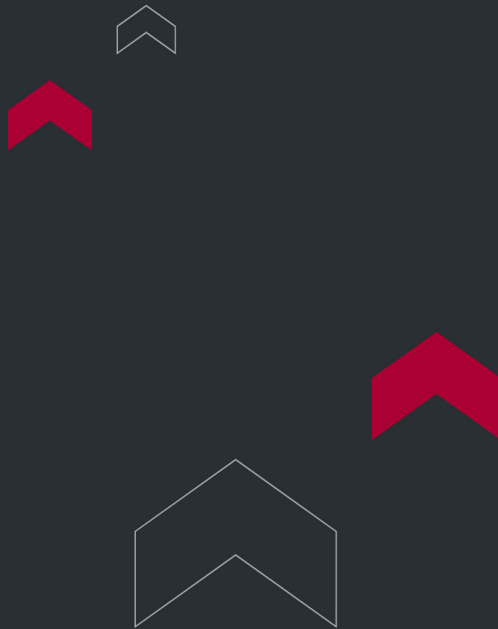
This system supports a wide range of applications, including nucleic acid detection and quantification, gene expression analysis, genotyping, agricultural and food safety testing, as well as veterinary diagnostics.

FEATURES

- **Compact and Portable:** Designed for efficient use of laboratory space.
- **High Sensitivity:** Delivers reliable results with minimal sample input.
- **Rapid Processing:** Optimized for quick time-to-result.
- **Advanced Optics:** Equipped with a cutting-edge optical system for superior performance.
- **Multiple Fluorescent Channels:** Supports diverse assays and applications.
- **Precise Temperature Control:** Ensures consistent and accurate results.
- **Cost-Effective:** Provides advanced functionality at an accessible price.
- **User-Friendly Software:** Intuitive interface for seamless operation.
- **Flexible Data Analysis:** Offers multiple modes to suit diverse research needs.
- **Versatile Applications:** Ideal for various research and testing purposes.
- **Collaborative Research:** Supports innovative partnerships.
- **Dedicated Support:** Backed by responsive customer service for smooth operation.

TECHNICAL SPECIFICATIONS

Model	TT-QPCR30
Product description	3-well Real-Time PCR instrument with 4 dye channel filters
Sample capacity	3-well, 0.2mL block
Compatible plates/tubes	Single tube
Reaction volume	20–120 µL
Excitation source	LED
Excitation range	475–620 nm
Detection method	Photodiodes
Detection range	515–670 nm
Detection channels	4
Temperature range	4–100°C
Average heating/cooling rate	5.0°C/sec / 4.5°C/sec
Maximum heating/cooling rate	7.0°C/sec / 6.0°C/sec
Temperature uniformity	±0.25°C
Temperature accuracy	±0.15°C
Detection sensitivity	1 copy
Sensitivity	Detect differences as small as 1.5-fold in target quantities in singleplex reactions
Dynamic range	10 logs of linear dynamic range
Footprint (W × D × H)	13.0 × 13.0 × 23.0 cm
Weight	2.0 kg



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