

REAL-TIME PCR SYSTEM (QPCR) - QUANTITATIVE THERMAL CYCLER TT- QPCR160T



Real-Time PCR System (qPCR) – Quantitative Thermal Cycler TT-QPCR160T is a compact and efficient 16-well thermal cycler with a 4-channel configuration. Its advanced optical fiber detection system enhances imaging speed, reducing overall cycling time. Designed for laboratories where space is a premium, this system delivers precise and reliable results across a wide range of applications.

APPLICATIONS

1. Detection and quantification of nucleic acid targets
2. Gene expression analysis
3. Genotyping
4. Agri-food safety testing
5. Veterinary diagnostics

FEATURES

- Compact design and lightweight construction for easy placement
- Exceptional sensitivity for accurate detection
- Rapid processing for faster results
- Advanced optical system with multiple fluorescent channels
- Reliable and precise temperature control
- Affordable and cost-effective solution
- User-friendly software for seamless operation
- Flexible data analysis options
- Broad application scope for diverse research needs
- Strong focus on research collaboration

- Dedicated customer support for continuous assistance

TECHNICAL SPECIFICATIONS

Model	TT-QPCR160T
Product description	16-well Real-Time PCR instrument with 4 dye channel filters & 7-inch touchscreen
Sample capacity	16-well, 0.2mL block
Compatible plates/tubes	8-well strip 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	3.0°C/sec / 3.0°C/sec
Maximum heating/cooling rate	4.0°C/sec / 4.0°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

Model	TT-QPCR160T
Dynamic range	10 logs of linear dynamic range
Footprint (W × D × H)	32.0 × 25.0 × 17.7 cm
Weight	4.5 kg



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