Thermal Cycler, PCR

Brand **Master Science** | Unit **Pc**

Thermal Cycler, PCR

Thermal Cycler, PCR - Product OverviewKey Features: Capacity: 3×(32×0.2ml) for high throughput sample processing. Max Heating/Cooling Rates: 5℃/s (heating), 4℃/s (cooling) for rapid cycling. Temperature Uniformity: ≤±0.2℃ ensuring consistent performance across wells. User Login Management: Provides security through a three-tier permission system with password protection.

KEY HIGHLIGHTS

- User Login Management
- Built-in WiFi Module
- Adjustable hot lid
- Real-time program monitoring
- Email Alerts

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Overview

The Thermal Cycler utilizes durable, long-lasting Peltier heating units with over 1,000,000 cycles, ensuring high reliability and longevity. It features cutting-edge technology, including:

Key Features

User Login Management
Provides security through a three-tier permission system with password protection.

Built-in WiFi Module
Enables remote control and monitoring of multiple machines via mobile app or PC software.

3 independent blocks, each capable of running gradient experiments simultaneously.

Reinforced aluminum module with anodizing technology for quick heat conduction and corrosion resistance.

Android-based operating system with an 8-inch high-definition color touch screen (800×600 pixels), providing easy control and monitoring.

Large storage capacity supporting 10,000 PCR files, plus USB functionality for file transfer and software updates.

One-click quick incubation for processes such as denaturation, enzyme cutting, and ELISA.

Automatic restart feature ensures experiments resume after a power failure, preserving data and progress.

Adjustable hot lid
Prevents sample evaporation and adapts to different tube heights with stepless adjustment.

Real-time program monitoring
Displays remaining time and allows file editing even during program execution.

Email Alerts
Automatically notifies users upon completion of experiments.

CONNECTIVITY

USB 2.0 for data retrieval, software updates, and external device control (e.g., USB mouse).

LAN and WiFi capabilities enable remote access, monitoring, and control of PCR instruments.

This Thermal Cycler is designed to meet the needs of high-precision PCR experiments, offering flexibility, user-friendly interfaces, and comprehensive data management for both routine and advanced experimental workflows.

Technical Specifications

PARAMETER	SPECIFICATION
Capacity3×(32×0.2ml) for high throughput sample processing.	
Max Heating/Cooling Rates5℃/s (heating), 4℃/s (cooling) for rapid cycling.	
Temperature Uniformity≤±0.2℃ ensuring consistent performance across wells.	
Pre-installed program templatesIncludes 11 standard templates for fast and easy setup.	
Capacity3×(32×0.2ml)	
Temperature Range0-105℃	
Heating Rate5℃/s	
Cooling Rate4℃/s	
Temperature Uniformity≤±0.2℃	
Temperature Accuracy≤±0.1℃	
Display Resolution0.1℃	
Temperature Control ModesBlock/Tube	
Ramping Rate (Adjustable)0.1-5℃/s	
Gradient Temperature Range30-105℃	
Gradient Spread1-30℃	
Hot Lid Temperature30-115℃	
Hot Lid Height AdjustmentStepless Adjustable	
Number of Programs10,000+ (USB Flash supported)	
Max. Number of Steps per Program30	
Max. Number of Cycles200	
Time Increment/Decrement1 Sec - 600 Sec	
Temperature Increment/Decrement0.1-10℃	
Pause FunctionYes	
Auto Data ProtectionYes	
Hold at 4℃Forever	
Touchdown PCR FunctionYes	
Long PCR FunctionYes	
LanguageEnglish	
Computer SoftwareYes	
Mobile Phone AppAndroid-compatible	

PARAMETER	SPECIFICATION
LCD Screen8-inch, 800×600 pixels, TFT	
GLP complianceGenerates step-by-step reports for accurate experiment tracking and analysis.	
This robust and versatile thermal cycler offers precision control, high-speed cycling, and flexible programming, making it ideal for various PCR experiments.	