

Thermal Cycler, PCR



Thermal Cycler, PCR - Product Overview

Key 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.
- **Built-in WiFi Module**

: Enables remote control and monitoring of multiple machines via mobile app or PC software.

Description:

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:

- **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.
- **GLP compliance**: Generates step-by-step reports for accurate experiment tracking and analysis.

Additional Features:

- **Adjustable hot lid**: Prevents sample evaporation and adapts to different tube heights with stepless adjustment.
- **Pre-installed program templates**: Includes 11 standard templates for fast and easy setup.
- **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.

Specifications for Thermal Cycler (Model: MSPCRG96XGSWISS)

- **Capacity:** 3×(32×0.2ml)
- **Temperature Range:** 0-105°
- **Heating Rate:** 5°/s
- **Cooling Rate:** 4°/s
- **Temperature Uniformity:** $\pm 0.2^{\circ}$
- **Temperature Accuracy:** $\pm 0.1^{\circ}$
- **Display Resolution:** 0.1°
- **Temperature Control Modes:** Block/Tube
- **Ramping Rate (Adjustable):** 0.1-5°/s
- **Gradient Temperature Range:** 30-105°
- **Gradient Spread:** 1-30°
- **Hot Lid Temperature:** 30-115°
- **Hot Lid Height Adjustment:** Stepless Adjustable
- **Number of Programs:** 10,000+ (USB Flash supported)
- **Max. Number of Steps per Program:** 30
- **Max. Number of Cycles:** 200

- **Time Increment/Decrement:** 1 Sec - 600 Sec
- **Temperature Increment/Decrement:** 0.1-10°
- **Pause Function:** Yes
- **Auto Data Protection:** Yes
- **Hold at 4°:** Forever
- **Touchdown PCR Function:** Yes
- **Long PCR Function:** Yes
- **Language:** English
- **Computer Software:** Yes
- **Mobile Phone App:** Android-compatible
- **LCD Screen:** 8-inch, 800×600 pixels, TFT

This robust and versatile thermal cycler offers precision control, high-speed cycling, and flexible programming, making it ideal for various PCR experiments.