



Prima Series

Empowering Excellence in Molecular Science



Introduction

The Prima PCR Series introduces a groundbreaking platform for molecular biology research, featuring an advanced touch screen interface for effortless control. With precision temperature control using Peltier technology, researchers can rely on accurate amplification efficiency in every experiment. Its gradient feature enables precise temperature optimization across samples, while the interchangeable block facility ensures versatility to accommodate various tube sizes and formats. Streamlined workflow and reliable performance make the Prima PCR Series the ideal choice for researchers seeking efficiency and consistency in their PCR experiments.

Salient Features

- **Multi-Sensor Temperature Control :** The thermal block features 6 independent temperature control sensors and 6 peltier heating units, ensuring precise and uniform temperature distribution across the block surface, enabling users to replicate previous experimental conditions accurately.
- **Intuitive Touch-Screen Interface:** Equipped with an 8" TFT color touch-screen display, the system offers a user-friendly interface for easy setup and monitoring of experiments.
- **Real-Time Temperature Monitoring:** Users can conveniently view and track both actual and target temperatures graphically in real-time, enhancing experiment control and accuracy.
- **Pre-Loaded Program Templates:** Built-in with 11 standard program file templates, including Touchdown, Standard, Nested Primer, iTaq, iScript, iProof, and Gradient, enabling quick editing and setup of required protocols.
- **Large Internal Storage:** The system features internal flash memory capable of storing up to 10,000 typical PCR files in free configurable folders, ensuring ample storage for experimental data.
- **Automatic Restart Functionality:** Automatic restart after power failure ensures continuity and reliability of experiments, minimizing disruptions and data loss.
- **Dynamic Ramping :** Dynamic ramping functionality maintains constant incubation times, optimizing experimental consistency and reproducibility.
- **Versatile Connectivity:** Compatible with peripherals such as mouse and keyboard, the system facilitates data transfer and software updates via USB drive, enhancing flexibility and usability.
- **Wide Compatibility:** Compatible with various PCR consumables, including 0.2ml tubes, 0.2 ml PCR 8 strip tubes, and 0.2 ml non-skirted & semi-skirted plates, accommodating diverse experimental needs.
- **Multi-System Control:** Capable of simultaneously controlling up to 11 PCR systems by connecting a single Ethernet Hub, enabling high-throughput experimentation.
- **Convenient USB Port:** Featuring a USB port for easy data transfer and product updates, ensuring seamless integration with external devices and software.
- **Enhanced Security:** User password protection ensures secure system access, safeguarding sensitive experimental data and settings.
- **GLP Report Generation:** GLP report functionality records every step of the experiment, providing comprehensive and accurate data support for result analysis and compliance.
- **One-Click Incubation:** A one-click quick incubation function streamlines experimental processes, saving time and effort during setup and execution.
- **Temperature Testing Capabilities:** The system can accurately test temperatures at denaturation, annealing and extension steps, facilitating precise control and optimization of PCR conditions.
- **Interchangeable Block Facility :** System allows users to easily switch between different types of thermal blocks.



LA949 : Prima 96

Prima 96 offers an unparalleled versatility option for LA949A with 96x0.2ml wells or LA949B with a blend of 96x0.2ml and 77x0.5ml wells. Both configurations feature a gradient function, empowering precise temperature control for advanced experimental needs.

Sample Capacity : 96x0.2ml wells / 96x0.2ml and 77x0.5ml wells

Interchangeable Blocks Option:
LA949A , LA949B, LA949C, LA948A , LA1111A



LA948 : Prima Duo

Prima Duo, equipped with a dual block system for enhanced flexibility in experimental setups. With its integrated gradient function, Prima Duo ensures precise temperature control across both blocks, enabling sophisticated thermal cycling protocols.

Sample Capacity : 2x48x0.2ml wells

Interchangeable Blocks Option:
LA949A, LA949B, LA949C, LA948A, LA1111A



LA1111 : Prima 384

Prima 384, engineered with advanced gradient features and 0.02ml well capacity for precise thermal cycling in technical applications. Elevate your experiments with unparalleled temperature control, optimizing PCR performance for high-throughput workflows.

Sample Capacity : 384x0.02ml wells

Interchangeable Blocks Option:
LA949A, LA949B, LA949C, LA948A, LA1111A



LA1006 : Prima Trio

Prima Trio, featuring a triple block design for maximum throughput in PCR experiments. With its advanced gradient function, Prima Trio offers precise temperature control across all blocks, facilitating complex thermal cycling protocols with ease.

Sample Capacity : 3x32x0.2ml wells



LA1015 : Prima 96 Plus

Prima 96 Plus with zone wise gradient function, enhancing experimental control in technical applications. Optimize PCR performance with precision temperature regulation across distinct zones, advancing research capabilities in complex workflows.

Sample Capacity : 96x0.2ml wells

Specifications

	Product Name	Prima-96™	Prima-DUO®	Prima-TRIO®	Prima 384™	Prima-96 ^{PLUS} ®
	Product Code	LA949	LA948	LA1006	LA1111	LA1015
	Sample capacity	96x0.2ml	2x48x0.2ml	3x32x0.2ml	384x0.02ml	96x0.2ml
	Peltier Number	8	8	6	8	6
➔	Block material	Aluminum Alloy				
	Temperature Range(°C)	0-100°C				
➔	Heating Rate(°C/sec)	5°C / Sec				6°C / Sec
	Cooling Rate(°C/sec)	4°C / Sec				
	Sample Ramp Rate	4-4.2°C / Sec				
➔	Control Accuracy(°C)	≤±0.1°C		≤±0.2°C	≤±0.1°C	≤±0.2°C
➔	Uniformity(°C)	≤±0.2°C		≤±0.3°C	≤±0.2°C	≤±0.3°C
	Control Mode	Block, Tube				
	Hot-lid Temperature(°C)	30°C - 110°C				
➔	Gradient Range(°C)	1-30°C				6 Temp zones
	Gradient Temp Range(°C)	30°C - 100°C				
➔	Reaction Volume Range	10-100 µl				
	Display Interface	8 inches, 800x600 Pixels, TFT, LCD Touch screen				
	Instrument Memory	10000 files + (USB Flash)				
➔	Auto restart facility	Yes				
	Temperature Time Increment / Decrement	0.1 - 10°C ; 1 sec - 600 sec				
	Pause function	Yes				
	Support for USB Mouse & Touch screen	Yes				
➔	Auto Data Protection	Yes				
	Touch calibration option	Yes				
	Tm Calculator	Yes				
➔	No of steps & cycles	30 steps & 100 cycle				
	Connection	USB 2.0, LAN				
	Network Control	Yes				
	Preloaded Protocol	Yes				
	Input Voltage & Input Power	AC85-264V, 47-63Hz & 600W				
	Footprint(DxWxH)	38x24x26 cm (14.9x9.4x10.2 inches)				
	Weight	9 kg (19.8 lb)				
	Standard Warranty	Limited Warranty				
	Certification	CE Certified				
➔	Interchangeable Block Format	LA949A, LA949B, LA949C, LA948A, LA1111A				—

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