



Real Time PCR LD-LRTP-A32

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Overview

Real Time PCR LD-LRTP-A32 is a compact molecular biology instrument designed for real-time amplification and fluorescence-based detection of nucleic acids. Its dual-block configuration allows two programs to be operated simultaneously, while integrated analysis functions support quantitative and qualitative PCR workflows, melting curve analysis, and genotyping.

Features:

- Four-channel dual-block design enables two programs to run simultaneously
- Customized Peltier temperature control provides precise thermal cycling
- Compact construction provides convenient handling and space-efficient installation
- 7-inch color touchscreen and integrated software provide convenient operation and data analysis
- Side-scanning optical design enhances fluorescence collection
- LED illumination provides long-life, maintenance-free operation
- Black reaction blocks help minimize background interference
- Constant-current control improves temperature control stability
- Electromagnetic lid locking enhances operational safety
- Built-in data storage supports extensive experimental record management
- Optional USB thermal printer enables convenient on-site result printing

Applications:

Suitable for molecular diagnostics, genetic testing, life science research, microbiology, biotechnology, pharmaceutical research, and academic laboratories.

Specifications:

Detection	High-sensitivity photoelectric detector
Net Weight	8 kg
Sensitivity	1 copy
Peltier Life	Up to 1,000,000 cycles
Power Supply	220 VAC, 50 Hz; DC 15 V, 255 W
Communication	Wi-Fi / USB 2.0
Dynamic Range	1–10 ¹² copies
Reaction Volume	15–100 μ L
Sample Capacity	32 $\times$ 0.2 mL (4 $\times$ 8-well, dual block)
Excitation Source	Long-life LED
Maximum Ramp Rate	5°C/s

Temperature Range	0–100°C
Analysis Functions	Quantitative/qualitative analysis, melting curve, genotyping
Package Dimensions	480 × 400 × 340 mm
Data Export Formats	Excel, CSV, TXT
Hot Lid Temperature	30–115°C, adjustable; default 105°C
Temperature Control	Block / Tube
Detection Wavelength	500–800 nm
Temperature Accuracy	±0.25°C
Excitation Wavelength	300–800 nm
Temperature Resolution	0.1°C
Temperature Uniformity	±0.25°C
Factory-Calibrated Dyes	F1: FAM/SYBR Green I; F2: HEX/VIC/JOE/TET; F3: ROX; F4: CY5
Temperature Fluctuation	±0.1°C
Dimensions (L × W × H)	300 × 267 × 198 mm