

Real Time PCR LD-LRTP-A21

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Overview

Real-Time PCR LD-LRTP-A21 is a high-performance model. The instrument does not require a computer and realizes independent operation, program editing, data viewing, and data analysis. Advanced temperature control system, powerful and user-friendly software system. Features four fluorescent detection channels with dyes. With a strong fluorescence signal, low background noise, and high sensitivity. The system has indicators for power on, in operation, successful communication, ultraviolet degradation (UV), a fault alarm, and hot lid open alarm. Temperature is controlled by Peltier technology. High-brightness single color LED module with a long lifespan serves as the excitation light source.

Features:

- Touch screen control, with software, efficient and convenient
- For sample evaluation, both 16 x 0.2 ml transparent tube and strip modes are acceptable, you can mark the tube with markers on the cover of the tube
- The system is an open platform, suitable for various real-time PCR reagents, including fast extraction reagents, non-extraction reagents or direct amplification reagents and other low-concentration PCR reagents
- Communication interface is RS232/ USB
- Software functions are It has system parameter setting (with password authority), experimental parameter setting, sample information input, operation management, data export EXCEL, PCR program overview, real-time amplification curve display, channel crosstalk correction, criterion setting, automatic report, curve capture and other functions
- Analytical functions provided are standard curve, relative quantitative curve and melting curve (HRM)

Applications:

It is used for parallel amplification and quantification of fluorescent tagged DNA or RNA molecules. Widely used to diagnose genetic disease, detect infections in humans and environment, DNA profiling, research etc.

Specifications:

CV	CV ?0.6%
Rn	? 0.998
Hot lid	30-105°C, Default 105°C
Net weight	6.8 kg
Sensitivity	1 copy
Power supply	100 to 240V, 50/60 Hz, 300VA
Dynamic range	1-1010 Copies

Sample volume	16 x 0.2 ml single tube or 8-strip transparent tube
Optical sensor	PD
Dyes and probes	CH1: FAM, SYBR Green I; CH2: HEX, JOE, VIC. TAMRA; CH3: ROX, CALRED; CH4: CY5, QUASAR.
Reaction volume	5 - 100 ul
Color wavelength	400 to 700nm
Avg. ramping rate	?2.5°C /s (50~90°C)
Max. ramping rate	? 4°C /s
Display resolution	0.1°C
Detection technology	Four PD detection, independent excitation fluorescence detection, suitable for suitable for multiple PCR.
Temperature accuracy	? 0.2°C
Operating environment	Ambient temperature: 10-30°C, relative humidity: 20-85%RH, elevation not higher than 2000 m, storage temperature: -20 – 60 °C
Dimensions (L x W x H)	265 x 334 x 172mm
Temperature uniformity	? ±0.2°C
Block temperature setting range	10 to 99.9°C
Precision of temperature control	?0.1°C