

**LABDEX**



# Real-Time Quantitative PCR LX110RTP

[www.labdex.com](http://www.labdex.com)

[info@labdex.com](mailto:info@labdex.com)

## Description:

It is designed with adjustable automatic hot lid with auto opening and closing which ensures constant pressure for various tube heights. It offers wide range of block temperature with its unique block dissipation technology and it provide precise temperature control and thermal gradient which easily optimizes PCR assays. It is a 96 well capacity PCR machine with wide temperature range and fast speed dual color scanning mode. Equipped with Touch screen display with one finger touch operations.

## Specifications :

Sample Capacity	12 × 8 (96 wells with 0.2 ml each) plate, 96 × 0.2 ml tubes (Bottom Transparent)
Emission Wavelength	500 to 800 nm
Excitation Wavelength	300 to 800 nm
Sample Volume Range	5 to 100µl
Program	Max 20 Segments for Each Program, Max 99 Cycles
Dynamics Range	10 to 10 <sup>10</sup> Copies
Max. channels number of fluorescence detection	5 channels
Detected Fluorescence	F1 : FAM, SYBR Green 1; F2 : VIC HEX TET JOE CY3 TAMRA; F3 : ROX TEXAS-RED; F4 : CY5 Quasar-670; F5 : CY5.5 Quasar-705

Block Temp. Range	4 to 105°C (Minimum Increment: 0.1°C), SOAK Low Temp. Conservation Function
Temp. Control Accuracy	$\leq \pm 0.1$ °C
Temp. Fluctuation	$\leq \pm 0.1$ °C
Temp. Uniformity	$\leq \pm 0.3$ °C
Ramping Rate	4.0 °C/sec
Temp. Control Mode	BLOCK/Tube Simulation Mode (Automatic Control based On Sample Volume )
Gradient Temp. Range	1 to 36 °C
Hot-lid Temp. Range	30 to 110°C (Adjustable, default 105°C, Automatic Hot-lid )
Fluorescence Detection Repeatability	0.05
Scan Mode	Absolute Quantification; Relative Quantification; SNP Analysis; Data Automatic Analysis; Melting Curve Genotyping; Gradient; HRM Multi-channel Crosstalk Correction; Background Correction; Automatic Gain; Customized Parameters
Operation System	Microsoft: Windows XP/Windows vista/Windows 7/Windows 8 Software: Excel2000/2002/2003/2007/2012

PC Configuration	Memory : 512 M; Hard Disk : 10 GB; CPU : Pentium® 4; Virtual Memory : ≥ 1000 MB
Power Supply	100 to 240 V, 50/60 Hz, 600 W
Dimension ( L × W × H )	410 × 386 × 352 mm
Socket	USB Adapter; Bluetooth Adapter
Tablet	Microsoft Surface 2 pro

## Features :

- Dual high sensitivity PMT (photomultiplier tube) synchronous detection
- Ferrotec Peltier cooler with improved efficiency rate and long life
- Maximum 36°C temperature gradient control function with calculator
- Fast speed dual color scanning mode
- Wide power supply range with PFC function
- 5 individual filters cover wide range of fluorescence detection

wavelength

## Applications :

Used for sequencing, genotyping, cloning and mutagenesis that require quantification and detecting target nucleic acids, in institutes, research, diagnostics centers and laboratories etc.

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71-75 Shelton Street Covent Garden, London WC2H 9JQ, UK

Email: [info@labdex.com](mailto:info@labdex.com) | Website: [www.labdex.com](http://www.labdex.com) | Phone: +44 20 3950

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