

# Real Time PCR



Labtron Equipment Ltd

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## REAL TIME PCR LRTP-A10

Enhance your operating experience with our large sample capacity real time PCR that offer a wide temperature range. With its unique block dissipation technology, it provides precise temperature control and thermal gradient which easily optimizes PCR assays. High throughput and maximum flexibility, these instruments are an affordable option for research applications.

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### Features

- Patented block dissipation technology gives excellent temperature uniformity
- Compact footprint with ergonomic design
- Enhanced thermal conductivity with TAS technology
- Windows touch operation enhances user comfort
- Ferrotec Peltier cooler with improved efficiency and longer life
- LED source, with enhanced life
- Wide range of block temperature (4-105°C) with soak low temperature function
- Adjustable hot lid, prevents reagent evaporation
- Temperature gradient control upto 36°C gradient
- Five individual filters cover wide range of wavelength
- Upto 96 well capacity with fast speed dual colour scanning
- Friendly interface
- Easy data transfer via USB and Bluetooth

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### Application

Ideal solution for sequencing, genotyping, cloning, mutagenesis and routine applications that require quantification and characterization of nucleic acids in academic institutes, research centres, diagnostics and laboratories.

## Specification

Model	LRTP-A10
Sample Capacity	96×0.2ml(Bottom Transparent)
Emission Wavelength	500-800nm
Excitation Wavelength	300-800nm
Dynamics Range	10-1010Copies
Detected Fluorescence	F1: FAM, SYBR Green I; F2:VIC HEX TET JOE CY3 TAMRA; F3:ROX TEXAS-RED; F4:CY5 Quasar-670; F5:CY5.5 Quasar-705
Block Temp. Range	4-105°C ( Minimum Increment: 0.1°C ), SOAK Low Temp. Conservation Function
Temp. Control Accuracy	±0.1°C
Temp. Fluctuation	±0.1°C
Temp. Uniformity	±0.3°C
Heating Rate	4.0°C/sec
Temp. Control Mode	BLOCK/Tube Simulation Mode (Automatic Control based On Sample Volume )
Gradient Temp. Range	1 -36°C
Hot-lid Temp. Range	30 -110°C (Adjustable, default 105°C, Automatic Hot-lid )
Sample Volume Range	5 -100µl
Fluorescence Detection Repeatability	0.05
Program	Max 20 Segments for Each Program, Max 99 Cycles
Operation Mode	Continuous
Scan Mode	Entire Plate or Designated Line
Scan Period	5.5sec (F1/F2 96 plate scan)
Feature Function	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: 512M; Hard Disk: 10GB; CPU: Pentium® 4; Virtual Memory: ≥1000MB
Power Supply	100-240V ~ 50/60Hz 600W
Dimension ( L×W×H )	410×386×352mm
Socket	USB Adapter; Bluetooth Adapter
Tablet	Microsoft Surface 2 pro

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## REAL TIME PCR LRTP-B SERIES

Labtron series LRTP-B is best for pathogen detection and exploring applications that involves polymerase chain reactions. Sensitive and reliable fluorescence quantitative PCR detection system delivers an unsurpassed performance, its large sample size increases productivity. Wide fluorescence wavelength range with innovative eight channel design, it optimizes thermal performance and maximizes convenience during operation.

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### Features

- Ferrotec Peltier cooler with improved efficiency and longer life
- Patented block dissipation technology gives excellent temperature uniformity
- Eight individual filters cover wide range of wavelength
- Wide range of block temperature (4-105°C) with SOAK low temperature function; Easy data transfer via USB and Bluetooth
- Upto 96 well capacity with fast speed dual colour scanning
- Temperature gradient control upto 36°C gradient
- Panoramic view of experimental results
- Baseline\threshold and LinReg analytical methods for individual analysis of each sample

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### Application

Ideal solution for sequencing, genotyping, cloning, mutagenesis and routine applications that require quantification and characterization of nucleic acids in academic institutes, research centres, diagnostics and laboratories.



## Specification

Model	LRTP-B10	LRTP-B20	LRTP-B30	LRTP-B40
Sample Capacity	96-Well PCR plate 12*8-strip 96*0.2ml(Bottom Transparent)			
Emission Wave-length	500-800nm			
Excitation Wave-length	300-800nm			
Dynamics Range	10-1010Copies			
Detected Fluorescence	F1: FAM, SYBR Green I; F2:VIC HEX TET JOE	F1: FAM, SYBR Green I; F2:VIC, HEX, TET, JOE; F3: CY3, NED, TAMRA; F4:ROX,- TEXAS-RED	F1:FAM SYBR Green I; F2:VIC HEX TET JOE; F3:CY3 NED TAMRA; F4:ROX TEXAS-RED; F5:CY5; F6:ht cyclor red	F1:FAM, SYBR Green I F2:VIC, HEX, TET, JOE F3:-CY3,NED,TAMRA F4:ROX, TEXAS-RED F5:CY5 F6: Light cyclor red F7,F8 for Customized
Block Temp. Range	4-105°C (Minimum Increment: 0.1°C ), SOAK Low Temp. Conservation Function			
Temp. Control Accuracy	±0.1°C			
Temp. Fluctuation	±0.1°C			
Temp. Uniformity	±0.3°C			
Heating Rate	4.0°C/sec			
Temp. Control Mode	BLOCK/Tube Simulation Mode (Automatic Control based On Sample Volume )			
Gradient Temp. Range	2 -36°C	3 -36°C	4 -36°C	5 -36°C
Hot-lid Temp. Range	31 -110°C (Adjustable, default 105°C, Automatic Hot-lid )	32 -110°C (Adjustable, default 105°C, Automatic Hot-lid )	33 -110°C (Adjustable, default 105°C, Automatic Hot-lid )	34 -110°C (Adjustable, default 105°C, Automatic Hot-lid )
Sample Volume Range	6 -100µl	7 -100µl	8 -100µl	9 -100µl
Fluorescence Detection Repeatability	0.05			
Program	Max 20 Segments for Each Program, Max 99 Cycles			
Operation Mode	Continuous			
Scan Mode	Entire Plate or Designated Line			
Scan Period	5.5sec (F1/F2 96 plate scan)			
Operation System	Microsoft: Windows2000/XP/vista/Windows7 Software: Excel2003/2007 Access: 2003/2007			
PC Configuration	Memory: 512M; Hard Disk: 10GB; CPU: Pentium® 4; Virtual Memory: ≥1000MB			
Power Supply	100-240V ~ 50/60Hz 600W			
Dimension ( L*W*H )	430x395x352mm			
Socket	RS 232C Adapter, USB adapter (optional), Bluetooth adapter (optional)			

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## REAL TIME PCR LRTP-C SERIES

Achieve rapid, reproducible amplification of your precious samples. Durable design with advanced peltier and fibre optic technology, it provides incomparable accuracy and steady performance. Energy efficient design and sophisticated multi point temperature control improve temperature uniformity throughout the heating block that delivers sensitive and dependable detection.

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### Features

- Advanced peltier and fibre optic technology provides exceptional stability to the equipment
- Multi point temperature control module maintains thermal uniformity
- Energy efficient
- Electric heat preservation cover
- Temperature gradient control upto 24°C gradient

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### Application

Ideal solution for sequencing, genotyping, cloning, mutagenesis and routine applications that require quantification and characterization of nucleic acids in academic institutes, research centres, diagnostics and laboratories.



## Specification

Model	LRTP-C10	LRTP-C20
Emission Wavelength	Standard channels: F1:525nm F2:564nm F3:584nm F4:612nm	F1:525nm F2:564nm
Excitation Wavelength	Standard channels: F1:470nm F2:523nm F3:543nm F4:571nm	F1:470nm F2:523nm
Detected Fluorescence	F1:FAM,SYBR Green I; F2: HEX- VIC F3:TAMRA,JOE,Cy3 F4:TEX RED,ROX	F1:FAM,SYBR Green I; F2: HEX VIC
Sample Capacity	48*0.2ml	
Dynamics Range	10-1010Copies	
Block Temp. Range	4-99.9°C	
Temp. Control Accuracy	≥4.0°C/sec	
Temp. Uniformity	≤±0.3°C	
Heating Rate	4.0 °C/sec	
Gradient Temp. Range	1°C-24°C	
Hot-lid Temp. Range	80°C-110°C	
Sample Volume Range	10-100µL	
Operation System	Windows 2000/XP	
Power Supply	AC110-220V 50Hz/60Hz 650W	
Dimension ( L×W×H )	520x450x320mm	
Weight	25kg (Without computer)	



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