



Insta Q48 m

Technical Parameters of the Product

Product Name	Insta Q96™ Real-time PCR Detection System	Insta Q48™ Real-time PCR Detection System	
Product Code	LA1012	LA1023	LA1024
Sample Capacity	96-Well PCR plate, 12x8 Strip, 96x0.2ml (Bottom Transparent)	48-well PCR, 8 Strip tubes, 48x0.2ml tube (Bottom Transparent)	
Dynamic Range	1~10 ¹⁰ Copies		
Excitation Wavelength	300-800nm	450-700nm	450-550nm
Emission Wavelength	500-800nm	500-700nm	500-600nm
Detected Fluorescence	F1: FAM, SYBR Green I F2: VIC, HEX, TET, JOE, CY3, NED, TAMRA F3: ROX, TEXAS-RED F4: CY5 F5:CY5.5	F1: FAM, SYBR Green I F2: VIC, HEX, TET, JOE F3: ROX, TEXAS-RED F4: CY5	F1: FAM, SYBR Green I F2: VIC, HEX, TET, JOE
Passive reference dye	Rox or other dye not required		
Block Temp. Range	4~105°C (Minimum Increment 0.1°C) Soak Low Temperature, Conservation Function		
Heating / Cooling Rate	4.0°C/s (max)		
Temp. Control Accuracy	≤ ± 0.1°C		
Temp. Fluctuation	≤ ± 0.1°C		
Temp. Uniformity	≤ ± 0.3°C	≤ ± 0.3°C (Tested at 55°C)	
Temp. Control Mode	Block / Tube Simulation Mode (Automatic Control Based On Sample Volume)		
Sample Volume Range	5~100µl		
Gradient Temp. Range	1~36°C	3 Temperature controlled blocks in the range of (Maximum) ±6°C	
Hot-Lid Temp. Range	30~110°C (Adjustable Default 105°C), Automatic Hot-Lid		
Fluorescence Detection Repeatability	Within 5%		
Scan Mode	Entire Plate or Designated Line	Entire Plate	
Program	Max 20 Segments for each Program, Max 99 Cycles		
Operation Mode	Continuous		
Scan Period	5.5 seconds	2 seconds	3.5 seconds
Feature Function	<ul style="list-style-type: none"> • Absolute Quantification • Automatic Data Analysis • Melt Curve • Genotyping • Gradient • Correction • Customized Parameters 	<ul style="list-style-type: none"> • Relative Quantification • Multi-Channel Crosstalk Correction • HRM • SNP Analysis • Background • Automatic Gain • No passive reference dye required 	
Operating System	Microsoft: Windows 7/ Windows 8.1/ Windows 10, Software: Excel 2000/2002/2003/2007/2012		
PC Configuration	Memory: 2GB RAM, Hard Disk: 500GB, CPU: Intel i3 & latest, Virtual Memory: ≥ 1000MB		
Power Supply	100 - 240V ~ 50/60Hz 600W		
Dimensions (LxWxH)	410mm x 386mm x 352mm	384 x 353 x 348	
Socket	USB Adapter, Bluetooth Adapter		
Certifications	Ferrotec Peltier, CE, EMC, RoHS2, IVD		

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