

RTPCR-3248

Real-Time PCR System



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

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►► Main Advantages

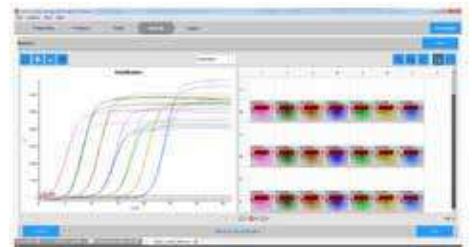
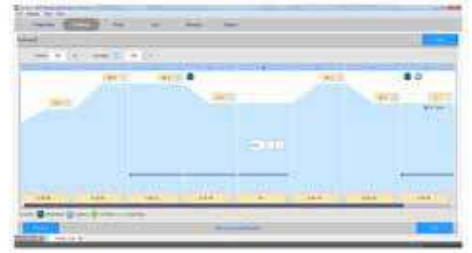
- The newest generation of Peltier-based technology, fastest ramping rate up to 7C/sec.
- Block sample capacity: 48-well* 0.1 ml, RTPCR-3248 is the Real-Time PCR system that is compatible with white PCR tubes (clear tubes can also be used). In quantitative PCR experiments, using white tube can get better results.
- Using the PC remote control software (through LAN), PCR procedures can be easily edited and then run remotely.
- Users can view fluorescence quantitative PCR reaction in real-time on the 7" full color TFT LCD touch screen. Both quantitative PCR procedures and regular PCR procedures can be run in stand alone mode.
- Drawer-type sample block design, more convenient to access samples.
- Dual-channel synchronous fluorescence detection reduces errors caused by delays and shortens the experimental time
- Top detection (Topical™ technology) reduces background noise, improves the fluorescence signal sensitivity and enhances signal to noise ratio.
- Each sample well has highly uniform fluorescence intensity and no special ROX correction channel is needed, the RTPCR-3248 equals to a traditional three-channel Real-Time PCR system.
- Maintenance-free long-life LED light source and high sensitivity photoelectric detector. Notably, the optical system has no moving parts, avoids the heat generation, mechanical wear, position offset caused by the movement of optical components of a traditional Real-Time PCR instrument.
- PC analysis software upgrades: FREE lifetime upgrades.

►► Technical Data

Model	RTPCR-3248
Sample Block Capacity	48 wells *0.1ml
Reaction Volume	20-50ul
Tubes Option	Low-profile white or clear 0.1 ml PCR tube/8-tube strips with optical flat cap
Heating &Cooling Technology	The New generation Peltier technology for more then one million thermal cycles
Control Methods	Operate via PC remote control; or the touch screen on instrument with limited function
Language	English
Communications	USB 2.0 and LAN, export data via USB flash drive
Display	7"Color TFT Touch Screen
Temperature	
Block Temp.Range	0°C ~ 105°C
Max.Heating Rate	7°C/sec
Max.Cooling Rate	5°C/sec
Temperature Uniformity	±0.25°C at 90°C
Temperature Accuracy	±0.25°C (10 seconds after reach 90°C)
Display Resolution	0.1°C
Heat Lid Temperature Range	30°C-112°C
Temperature Control Mode	Block & Sim-tube mode
Optical Moodule	
Excitation	Long life LED
Detection	High sensitivity photoelectric detector
Calibrated Dyes at Installation	Channel1 : FAM, SYBR, Channel2 : VIC, HEX, JOE
Fluorescence Excitation Range	470-500nm
Fluorescence Detection Range	Channel1 : 520-540nm, Channel2 : 540-700nm
Date Export Formats	Excel. TXT
Other Features	
Power	Global switch power supply:100V-240V, 50-60Hz
Consumption	400W
Net Weight	8.2kg
Dimensions(L×W×H)	205mmx250mmx320mm
computer	
Operating Systems	Windows7,Windows8,Windows10
CPU Speed	2.0GHz
Display Resolution	1366×768
Memory	2.00 GB RAM
Available Hard Disk	> 20 GB

►► Software:

- Via an ethernet cable directly or via router wire connect directly or via router.
- Factory-calibrated optics let you start to use the instrument in seconds, so no additional calibration is required
- Quality control (QC) on data automatically, evaluate reliability of analysis results.
- Graphical display of protocols, default templates, start a run in just a few steps.
- Simple and intuitive operation, easy to use, even without need of reading user guide thoroughly.
- Perform PCR runs using computer via network or start an experiment using a USB flash drive (stand-alone mode).
- Real—time monitoring of amplification curve or melt curve via the 7" color touch screen on the instrument.
- Intuitive plate setup feature.
- Thermal gradient capability for optimizing PCR reactions temperature.
- Protocols and plate setups can be saved as templates for future use.
- Multitasking software, can analyze multiple experiments at the same time.
- A Variety of Data Analysis Methods
 - » Standard curves for absolute quantification
 - » Melt-curve to verify product identity
 - » Relative quantification for gene expression analysis, with multiple reference genes and amplification efficiency correction
 - » Allelic discrimination (SNP Genotyping) using two allele-specific probes, with automated calling and quality-value assignment
 - » Presence/Absence (Plus/Minus) assays with/without internal positive control (IPC) for pathogen detection
- A variety of algorithms, such as auto-baseline, manual-baseline, auto-threshold, manual-threshold, amplification efficiency (E), can streamline data analysis.
- Multitasking software, can analyze multiple experiments at the same time.



HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

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Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

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3007



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Atomic Absorption
Spectrophotometer



Liquid Particle
Counter



Optical Emission
Spectrophotometer



DSC/TGA



Semi Auto Bio
Chemistry Analyzer



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Hematology
Analyzer



Micro Plate
Reader/Washer



URINOVA 2800
Urine Analyzer



Total Organic
Carbon 3800



Fully Automated
CLIA



NOVA-2100
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RTPCR



TOC
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Ion Chromatograph



Water purification
system

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2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

Reach us @



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