NMPA approved, CE marked

MA- 6000

Real - Tim e Quantitative Ther m al Cycler

Specifications

PCR Module	
Sample Capacity	96 Wells*200µl 6
Sample Volume	6 - 120µl
Apply Consumables	200µl Single Tube, 200µl 8 - tube Strip, 96 Well Plate (Half Edge / No Edge)

Thermo Cycler			
Temperature Range	0-100 C°		
Maxim u m Heating / Cooling	≥3°C/ s		
Rate Temperature Accuracy	± 0. 1°C		
Temperature Unifor mity	± 0.25°C		
No. of Temperature Control Modules	6 Independent Modules		
Gradient	Yes	No. of Gradient Columns	12
Hot Cover	Electric Hot Cover	Lid temperature (105 °C)	

Fluorescent Detection System	
Excitation Light Source	Full Spectrum Halogen Lamp
Excitation Spectrum	380–780 nm
Detector	-20°C CCD
Fluorescence Dyes/ Probes	FAM/ SYBR Green I / VIC / HEX/ TET/ Cy3 / Cy3.5 / JOE/ Yellow 555 / ROX/ Texas Red / Cy5 / Cy5.5 / LC Red / Tamara
Excitation and Detection Medium	Two - way 96 Optical Fibres
Sample Linear Range	1-10^{10} Copies
Sensitivity	1 Copy detection

Operation Conditions	
Power Supply	100 - 240V
Frequency	50 - 60Hz
Operating System	Win7 / 8 / 10
External Interface	USB 3.0
Dimensions (WxHxD)	548×388×288 mm
Weight	23kg

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Innovating Life Tech For All

Sansure

MA - 6000 Real - Time Quantitative Thermal Cycler

MA- 6000 is designed to carry out any real - time PCR assay, including analysis for infectious agents, mutations and SNP, detection and quantification of cellular RNA Levels and fast screening, featuring multi - channel qPCR detection, melt curve and data analysis and management. MA- 6000 can carry out PCR reactions in 96 - well plate, 8 - strip tube, or single PCR tube. The ability to collect and analyze data in real - time, as well as efficient data management allows the researcher to generate data rapidly and carry repetitive experiment. As a closed - tube instrument, contamination is minimized.

Performances

Excellent Temperature Control Technology

- 6 independent temperature control modules with pioneering superconductive technique for excellent thermal homogeneity
- Wide thermal range with 12 gradients
- Temperature compensational technique for thermal controlling

Leading Optical Inspection Technology

- Optical fiber conducted excitation signal to each vial physically eliminated temperature and optical edge effects
- Monochrome CCD collects fluorescence signal in 0.15s, improving the sensitivity of detector

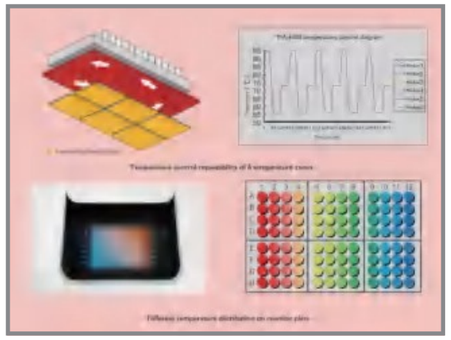
Powerful Software System

- Automatic notification for completion via email, synchronously upload result to CLOUD
- Easy access software interface for open and flexible applications
- Compatible with various consumable and reaction reagents

Features

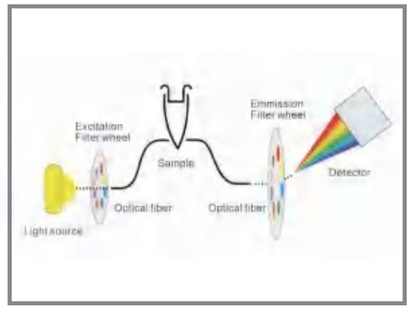
1 Innovation Temperature Control Technology

Temperature control system is comprised of a heating block module and a temperature control unit (Peltier). The block is heated by independently controlled TE modules, and it ensures the heating and cooling are quickly, uniformly and precisely controlled.



2 The World's Leading Optical Detection Technology's

Representing the world's leading optical conduction and acquisition technology, the excitation light source required by the reaction system and the emitted light of the excited reaction system are transmitted to each reaction hole and cold CCD without attenuation by using optical fiber, which ensures the consistency and authenticity of excitation and detection from the physical properties and greatly improving the sensitivity of detection. Allows your low - copy samples to be efficiently detected and easily distinguished.



Channel	Excitation Wavelength (nm)	Emission Wavelength (nm)	Fluorescent Dye Example
1 Blue	460 - 480	512 - 528	FAM/ SYBR Green I / EvaGreen...
2 Green	515 - 535	562 - 578	VIC / JOE/ HEX/ TET...
3 Yellow	560 - 580	612 - 628	ROX/ Texas Red...
4 Red	610 - 630	662 - 678	Cy5...
5 Red	660 - 680	702 - 718	Cy5.5 / Quasar705...

Five filter sets are provided, which are optimized for the detection of the most co mm only used fluorescence. The filter sets for other new fluorescence are also available and can be supplied according to customer require m ents. The optical path design of the instrument can ensure the coverage of various types of fluorescent dyes on the market.

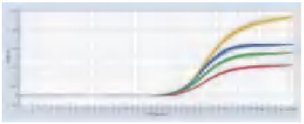
3 Easy - to - use Software with Powerful Functions

All set - up and analysis functions are controlled via an intuitive, easy - to - use software interface that permits rapid experimental set - up and data analysis. User can setup PCR protocol, setup sample para meters, set file location, collect, process and analyze the data signal quickly and easily in the software. It can monitor all the process of gene amplification via computer. Experiment reports can be exported and analyzed using Microsoft Word and Excel.

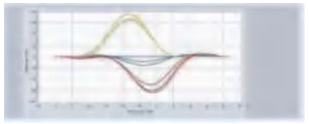
Weak Positive Repeatability Verification

Verification of Melting Curve

Exa m ples of 1.5x and 2x Effectively Distinguished Test Result



Multichannel Experi m ental Curve (FAM, VIC, ROX, Cy5)



High Resolution Melting Curve

Freely Co m bination of Channels

10 to $10^{1°}$ Copies Te m plate Valid Verification