

# Infitek

## MOLECULAR BIOLOGY INSTRUMENTS

THERMAL CYCLER  
REAL-TIME PCR SYSTEM



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## Infitek

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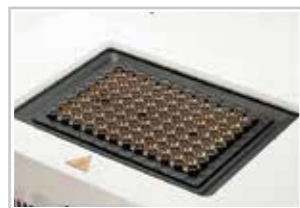
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# PCR Standard Thermo Cycler

## PCRTC-S



## Description

-  Reliable heating/cooling elements and precise temperature control
-  Unique design of block ensures the temperature uniformity and repeatable results
-  7 inch Large color touch panel screen for easy programming with user friendly software
-  High performance DSP and temperature control
-  Fast heating and cooling rate
-  Large user program storage

## Specifications

Model	PCRTC-S
Sample Capacity	96×0.2mL PCR tube   12×0.2mL PCR-8 strips   1×0.2mL 96-well PCR plate
Heating Temperature Range	0-105 °C
Lid Temperature Range	30-115 °C
Temperature Display Accuracy	±0.1 °C
Temperature Control Accuracy	±0.1 °C
Temperature uniformity[at 55 °C]	±0.2 °C
Max. Heating/Cooling Rate	5 °C/Sec
Adapter block material	Aluminum
Display	7" LCD 1024*600
Input	Touch panel
Communication interface	USB/Wifi
Number of program storage	20000+ (USB FLASH)
User defined file system	Up to 30 steps and 99 cycles in a single program
Power off protection	Yes
Power Supply	100-120V/200-240V,50/60Hz,600W
Dimension [D×W×H]	296x370x295 mm
Package Dimension (W*D*H) (mm)	600*440*450
Weight	9.5kg/13.2

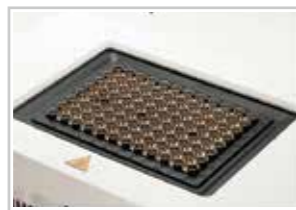
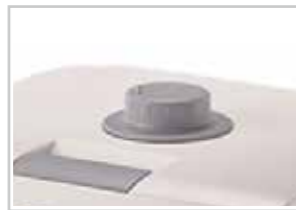
# PCR Gradient Thermo Cyclers

## PCRTC-GP









Built-in WIFI module, connecting via LAN with a PC host computer, simultaneous control of multiple PCR instruments with one computer;

USB interface, support for saving/retrieving PCR data on U disk, support for updating software on U disk and LAN, customisable programs, file customization, multi-file storage;



## Description

-  Reliable heating/cooling elements and precise temperature control
-  Unique design of block ensures the temperature uniformity and repeatable results
-  7 inch Large color touch panel screen for easy programming with user friendly software
-  High performance DSP and temperature control
-  Fast heating and cooling rate
-  Large user program storage

## Specifications

Model	PCRTC-GP
Sample Capacity	96×0.2mL PCR tube   12×0.2mL PCR-8 strips   1×0.2mL 96-well PCR plate
Heating Temperature Range	0-105 °C
Lid Temperature Range	30-115 °C
Temperature Display Accuracy	±0.1 °C
Temperature Control Accuracy	±0.1 °C
Temperature uniformity[at 55 °C]	±0.2 °C
Max. Heating/Cooling Rate	5 °C/Sec
Gradient Temperature Setting Range	30-105 °C
Gradient Range	1-42 °C, Turn off gradient on input 0
Adapter block material	Aluminum
Display	7" LCD 1024x600
Input	Touch panel
Communication interface	USB/Wifi
Number of program storage	20000+ (USB FLASH)
User defined file system	Up to 30 steps and 99 cycles in a single program
Power off protection	Yes
Power Supply	100~120V/200~240V, 50/60Hz 600W
Dimension [D×W×H]	296x370x295mm
Weight	9.5kg

# Thermal Cycler

## PCR-96S



### Description

- Thermal cycler uses long service life peltier. Its max. ramping rate is 5 °C/s and cycle times is more than 1000,000. The product combines a variety of advanced technologies: Android system; Color capacitive touch screen; several block as options; built-in WIFI module, mobile APP and PC software control function; email notification function; big storage capacity and etc. All above functions allow PCR's excellent performance and meet higher experiment's need.



### Features



- The running program and left time can be displayed in real time, allow to edit file when programs running
- Android operating system, capacitive touch screen, high-definition TFT display (8", 800×600 pixels, 16 colors) with graphical interface provides easy use for setting up and monitoring



- Support U disk to get PCR data, to update software, and USB mouse can also be used to control the PCR instrument
- Built-in WIFI module, one machine can control multiple PCR machines at the same time through mobile APP or PC software



- High heating and cooling rate, max. ramping rate 5 °C/s, can save your precious time.
- Stepless adjustable hot lid, fit tubes of different heights to avoid tube melt and evaporation



- Built-in 11 standard program file template, can quickly edit the required files. Folder management, user can build directory
- Internal flash memory for 200000 typical PCR files in free configurable folders.



- One computer can control many sets of PCR via network connection



- Reinforced aluminum module with anodizing technology can keep rapid heating-conducting property and have enough corrosion resistance.

- Six pieces of long service life Peltier heating units and form 3 circuits to control temperature zones;
- One-click quick incubation function can meet experiment's needs such as denaturation, enzyme cutting/enzyme-link and ELISA;
- Hot lid temperature and hot lid work mode can be set to meet different experiment's need;
- Automatic restart after power failure. When power is restored it can continue to run unfinished program;
- GLP report records every step to provide accurate data support for experiment result analysis;
- User Login Management, three-tier permission, password protection function to ensure data security;
- Support email-alert function when experiment is over.

## Specifications




Model	PCR-96S
Capacity	96×0.2ml
Tube	0.1/0.2ml tube, 8 strips, 12 strips, Half skirt 96 wells plate, No skirt 96 wells plate
Reaction System	5-120ul
Temperature Range	0-105 °C
Max. Ramp Rate	5 °C/s
Temperature Uniformity	±0.2 °C
Temperature Accuracy	±0.1 °C
Display Resolution	0.1 °C
Temperature Control	Block/Tube
Ramping Rate Adjustable	0.01-5 °C/s
Gradient Temp. Range	30-105 °C
Gradient spread	0.1-30 °C
Hot Lid Temperature	25-115 °C
Hot Lid Height Adjustable	Step-less Adjustable
Number of Programs	200000+ (unlimited expansion via USB flash drive)
Max. No. of step	30
Max. No. of cycle	200
Time Increment/Decrement	1s-600s
Temp. Increment/Decrement	0.1-10 °C
Pause Function	Yes
Auto Data Protection	Yes
Hold at 4 °C	Forever
Touchdown Function	Yes
Long PCR Function	Yes
Language	English
Computer Software	Yes
Mobile phone APP	Android
LCD	8 inch, 800×600 pixels
Communication	USB2.0, LAN, WIFI
Dimensions(L×W×H)	390mm×270mm×255mm
Weight	9 Kg
Electricity	100-240VAC, 50/60Hz, 600W

# Thermal Cycler

## PCR-96A



### Features

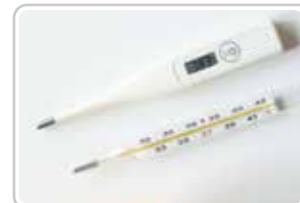
-  10.1 inch capacitive touch screen
-  One-click quick incubation function
-  High heating and cooling rate



### Description

- Thermal cycler has Android operation system and 10.1 inch capacitive touch screen. Operation is very smooth and simple. Air channel is in front and back and it allows machine placed side by side. Self-adapting pressure hot lid makes closing lid and tightening lid in one step. It has long service life Peltier heating units and max. ramping rate is 6 C/S and cycle times is more than 1000,000. Wifi unit is built in and user can control many units of PCR through mobile App.

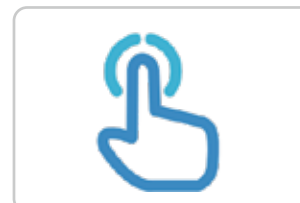
### Advantages



- High heating and cooling rate, max. Ramping rate is 6 C/s



- Automatic restart after power failure. When power is restored it can continue to run unfinished program.



- One-click quick incubation function can meet experiment's needs such as denaturation, enzyme cutting/enzyme-link and ELISA.



- Android operation system and 10.1 inch capacitive touch screen.

### Specifications

Model	PCR-96A
Capacity	96×0.2ml
Tube	0.1ml tube,8 strips, Half skirt 96wells plate, No skirt 96 wells plate
Reaction System	1-120ul
Temperature Range	0-105℃
MAX. Ramp Rate	6℃/s
Temperature Uniformity	≤±0.2℃
Temperature Accuracy	≤±0.1℃
Display Resolution	0.1℃
Temperature Control	Block/Tube
Ramping Rate Adjustable	0.01-6℃/s
Gradient Temp. Range	30-105℃
Gradient Type	Normal Gradient
Gradient spread	0.1-42℃
Hot Lid Temperature	30-115℃
Number of Programs	200000+ (unlimited expansion via USB flash drive)
Max. No.of step	30
Max. No.of cycle	100
Time Increment/Decrement	1s-600s
Temp.Increment/Decrement	0.1-10℃
Pause Function	Yes
Auto Data Protection	Yes
Hold at 4℃	Forever
Touchdown Function	Yes
Long PCR Function	Yes
Language	English
Computer Software	Yes
Mobile phone APP	Yes
LCD	10.1 inch, 1280×800 pixels
Communication	USB2.0, WIFI
Dimensions(L×W×H)	385mm×270mm×255mm
Weight	10Kg
Electricity	100-240VAC , 50/60Hz , 600 W

# Thermal Cycler

PCR-482



PC on-line function



Printing function



Independently controlled 4 temperature zones



## Description

- PCR-482 thermal cycler uses customized Marlow (US) peltier. Its max. ramping rate is 6 °C/s and cycle times is more than 1,000,000. The product combines a variety of advanced technologies: Windows system, color touch screen; independently controlled 4 temperature zones; PC on-line function; Big storage capacity and support USB device. All above functions allow PCR's excellent performance and meet higher experiment's need.

## Features



- Stepless adjustable hot lid with pressure-protection, fit tubes of different heights to avoid tube melt and evaporation; Android operating system, capacitive touch screen, high-definition TFT display (8", 800×600 pixels, 16 colors) with graphical interface provides easy use for setting up and monitoring
- The running program and left time can be displayed in real time, allow to edit file when program is running



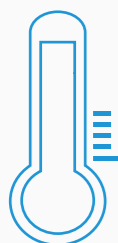
- Support U disk to get PCR data, to update software, and USB mouse can also be used to control the PCR instrument
- Built-in WIFI module, one machine can control multiple PCR machines at the same time through mobile APP or PC software



- Built-in 11 standard program file template, can quickly edit the required files.
- Folder management, user can build directory
- Internal flash memory for 200000 typical PCR files in free configurable folders



- One-click quick incubation function can meet experiment's needs such as denaturation, enzyme cutting/enzyme-link and ELISA



- 8 pcs long service life Peltier heating units and form 4 circuits to control 4 temperature zones and allow double block gradient function
- High heating and cooling rate, max. ramping rate 6 C/s, can save your precious time, Two blocks independently controlled and can run 2 different PCR programs simultaneously
- Hot lid temperature and hot lid work mode can be set to meet different experiment's need



- Reinforced aluminum module with anodizing technology can keep rapid heating-conducting property and have enough corrosion resistance

- Automatic restart after power failure. When power is restored it can continue to run unfinished program
- GLP report records every step to provide accurate data support for experiment result analysis
- User Login Management, three-tier permission, password protection function to ensure data security
- One computer can control many sets of PCR via network connection
- Support email-alert function when experiment is over.

## Specifications

Model	PCR-482
Capacity	Double 48×0.2ml
Tube	0.1/0.2ml tube, 8 strips
Reaction System	5-120ul
Temperature Range	0-105 °C
Max. Ramp Rate	6 °C/s
Temperature Uniformity	±0.2 °C
Temperature Accuracy	±0.1 °C
Display Resolution	0.1 °C
Temperature Control	Block/Tube
Ramping Rate Adjustable	0.01-6 °C/s
Gradient Temp. Range	30-105 °C
Gradient spread	0.1-30 °C
Hot Lid Temperature	25-115 °C
Hot Lid Height Adjustable	Step-less Adjustable
Number of Programs	200000+ (unlimited expansion via USB flash drive)
Max. No. of step	30
Max. No. of cycle	200
Time Increment/Decrement	1s-600s
Temp. Increment/Decrement	0.1-10 °C
Pause Function	Yes
Auto Data Protection	Yes
Hold at 4 °C	Forever
Touchdown Function	Yes
Long PCR Function	Yes
Language	English
Computer Software	Yes
Mobile phone APP	Android
LCD	8 inch, 800×600 pixels
Communication	USB2.0, LAN, WIFI
Dimensions (L×W×H)	390mm×270mm×255mm
Package Dimension (W×D×H) (mm)	560*430*430
Weight	9 kg/12.7kg
Electricity	100-240VAC, 50/60Hz, 600W

# Thermal Cycler

## PCR-G96XG



PC on-line function



Printing function



Independently controlled 3 temperature zones



## Description

- Thermal cycler uses long service life peltier. Its max. ramping rate is 5 °C/s and cycle times is more than 1000, 000. The product combines a variety of advanced technologies: Windows system; color touch screen; 3 blocks can run gradient experiments independently; PC on-line function; email notification function; big storage capacity and support USB device. All above functions allow PCR's excellent performance and meet higher experiment's need.

## Features



- Android operating system, capacitive touch screen, high-definition TFT display (8", 800×600 pixels, 16 colors) with graphical interface provides easy use for setting up and monitoring
- The running program and left time can be displayed in real time, allow to edit file when programs running



- Support U disk to get PCR data, to update software, and USB mouse can also be used to control the PCR instrument
- Built-in WIFI module, one machine can control multiple PCR machines at the same time through mobile APP or PC software



- 6 long service life Peltier heating units and form 3 circuits to control 3 temperature zones
- Hot lid temperature and hot lid work mode can be set to meet different experiment's need



- Built-in 11 standard program file template, can quickly edit the required files
- Internal flash memory for 200000 typical PCR files in free configurable folders
- Folder management, user can build directory.



- Reinforced aluminum module with anodizing technology can keep rapid heating-conducting property and have enough corrosion resistance) High heating and cooling rate, max. ramping rate 5C/s, can save your precious time.



- One computer can control many sets of PCR via network connection



- One-click quick incubation function can meet experiment's needs such as denaturation, enzyme cutting/enzyme-link and ELISA

- 3 blocks independently controlled and can run 3 different PCR gradient program simultaneously
- Stepless adjustable hot lid with pressure-protection, fit tubes of different heights to avoid tube melt and evaporation.
- Automatic restart after power failure. When power is restored it can continue to run unfinished program
- GLP report records every step to provide accurate data support for experiment result analysis
- User Login Management, three-tier permission, password protection function to ensure data security
- Support email-alert function when experiment is over.

## Specifications

Model	PCR-G96XG
Capacity	3×0.2ml×32wells
Tube	0.1/0.2ml tube, 8 strips
Reaction System	5-120ul
Temperature Range	0-105 °C
Max. Ramp Rate	5 °C/s
Temperature Uniformity	≤±0.2 °C
Temperature Accuracy	≤±0.1 °C
Display Resolution	0.1 °C
Temperature Control	Block/Tube
Ramping Rate Adjustable	0.01-5 °C/s
Gradient Temp. Range	30-105 °C
Gradient spread	0.1-30 °C
Hot Lid Temperature	25-115 °C
Hot Lid Height Adjustable	Step-less Adjustable
Number of Programs	200000+ (unlimited expansion via USB flash drive)
Max. No. of step	30
Max. No. of cycle	200
Time Increment/Decrement	1s-600s
Temp. Increment/Decrement	0.1-10 °C
Pause Function	Yes
Auto Data Protection	Yes
Hold at 4 °C	Forever
Touchdown Function	Yes
Long PCR Function	Yes
Language	English
Computer Software	Yes
Mobile phone APP	Android
LCD	8 inch, 800×600 pixels, TFT
Communication	USB2.0, LAN, WIFI
Dimensions(L×W×H)	390mm×270mm×255mm
Weight	9 Kg
Electricity	100-240VAC, 50/60Hz, 600W

# Real Time PCR System

## PCR-Q88-4



### Description



Small size, light weight, easy to carry



Powerful software analysis function, which can perform quantitative analysis, melting curve analysis, genotyping, etc



Constant current control circuit makes power output smooth and extends Peltier life, also improves temperature control accuracy



Black reaction block to avoid background noise.



Adopting side scan technology, the detection distance is short, and the fluorescence collection signal is stable



LED light source has the advantage of energy saving, environmental protection, long service life and maintenance free.



Support lithium battery power supply, especially suitable for quick inspection and field inspection.



Adopt the same acquisition optical path to improve the repeatability.



Forward and backward air vent design, can be placed side by side, saving laboratory space.



It has the protection functions of over-current, over temperature, power-off data self recovery, etc.

### Application

The product can be used for real-time detection in pasture forest farm, breeding farm and water source. It is used for rapid diagnosis of disaster and epidemic disease, inspection and quarantine in the field of food safety, and scientific research in biological laboratories.



### Specifications

Model	PCR-Q88-4
Sample Capacity	8×0.2ml (8 well)
Consumable	Clear 0.2 ml PCR tube /8-tube strips
Reaction Volume	15-100µl
Temperature control technology	Marlow customized Peltier allow 1,000,000 cycles
Temperature Range	0-100 °C (Resolution:0.1 °C)
Max. Ramp Rate	7 °C/s
Temperature fluctuation	±0.1 °C
Uniformity	±0.25 °C
Accuracy	±0.25 °C
Hot Lid Temperature	30-115 °C (Adjustable, default 105 °C)
Temperature Control	Block/Tube
Excitation wavelength	300-800nm
Detection wavelength	500-800nm
Factory Calibrated Dyes	F1: FAM/SYBR Green I F2:HEX/VIC/JOE/TET F3: ROX F4: CY5
Excitation	Long life LED
Detection	High sensitivity photoelectric detector
Dynamic Range	1-10 <sup>10</sup> Copies
Sensitivity	1 copy
Feature function	Quantitative/qualitative, melting curve, genotyping
Date Export Formats	Excel, csv, txt
Printing	Report can be printed (optional USB thermal printer)
Communication	WIFI/USB2.0
Dimension0 (L×W×H)	195×165×140 mm
Net Weight	3Kg
Electricity	220VAC,50Hz DC15V 150W

# Real Time PCR System

PCR-Q16-1B PCR-Q16-4F



Dual block real-time PCR



One machine dual use



Simple and elegant

## Description

- PCR-Q16-1B Real-Time PCR System is a portable fluorescence quantitative PCR instrument. This product adopts dual-channel and double 8-well blocks, which can run two different files simultaneously. The product combines a variety of advanced technologies: 7-inch high-definition TFT color touch screen, Win10 operating system with analysis software, complete quantitative analysis and printing report without computer. It adopts American Marlow custom-made peltier, high sensitivity photoelectric detector and side scan technology, to ensure superior performance and stable detection results.

## Features



- Powerful software analysis function, which can be used for Quantitative Analysis, Melting Curve Analysis, Genotyping, etc. 7-inch high-definition TFT color touch screen, and embedded win10 operating system.
- LED light source has the advantage of energy saving, environmental protection, long service life and maintenance free.



- Constant current control circuit makes power output smooth and extends Peltier life, also improves temperature control accuracy.
- It has the protection functions of over-current, over temperature, power-off data self recovery, etc.



- The electromagnetic lock cover technology prevents the hot lid from accidentally opening. Front shutdown button makes file data more secure.



- 20G flash memory can save 40,000 experimental data.



- Printer as an optional which can print the records directly, no need to connect the computer.

- Double channels and double 8-well blocks design, can run two different programs at the same time.
- Small size, light weight, easy to carry.
- Adopting side scan technology, the detection distance is close, and the fluorescence acquisition signal is stable
- Black reaction block to avoid background noise.
- Adopt the same acquisition optical path to improve the repeatability.
- Forward and backward air vent design, can be placed side by side, saving laboratory space.

## Specifications

Model	PCR-Q16-1B	PCR-Q16-4F
Sample Capacity	16×0.2ml(2×8well, dual block)	16×0.2ml(2×8well, dual block)
Consumable	Clear 0.2 ml PCR tube /8-tube strips	Clear 0.2 ml PCR tube /8-tube strips
Reaction Volume	15-100μL	15-100μL
Temperature control technology	Marlow customized Peltier allow 1,000,000 cycles	Marlow customized Peltier allow 1,000,000 cycles
Temperature Range	0-100℃ (Resolution: 0.1℃)	0-100℃ (Resolution: 0.1℃)
MAX. Ramp Rate	6℃/s	7℃/s
Temperature fluctuation	±0.1℃	±0.1℃
Uniformity	±0.25℃	±0.25℃
Accuracy	±0.25℃	±0.25℃
Hot Lid Temperature	30-115℃ (Adjustable, default 105℃)	30-115℃ (Adjustable, default 105℃)
Temperature Control	Block/Tube	Block/Tube
Excitation Wavelength	300-800nm	300-800nm
Detection Wavelength	500-800nm	500-800nm
Factory Calibrated Dyes	F1: FAM/SYBR Green I;	F1: FAM/SYBR Green I; F2: HEX/VIC/JOE/TET F3: ROX F4: CY5
Excitation	Long life LED	Long life LED
Detection	High sensitivity photoelectric detector	High sensitivity photoelectric detector
Dynamic Range	1-10 <sup>10</sup> Copies	1-10 <sup>10</sup> Copies
Sensitivity	1 copy	1 copy
Feature function	Quantitative/qualitative analysis, Melting curve, Genotyping	Quantitative/qualitative analysis, Melting curve, Genotyping
Date Export Formats	Excel, CSV, Txt	Excel, CSV, Txt
Printing	Report can be printed (optional USB thermal printer)	Report can be printed (optional USB thermal printer)
Control Method	7 inch color TFT touch screen, Can be connected to computer control	7 inch color TFT touch screen, Can be connected to computer control
Communication	WIFI/USB2.0	WIFI/USB2.0
Dimension (L×W×H)	300×267×198mm	300×267×198mm
Net Weight	8 Kg	8 Kg
Electricity	220VAC、50Hz ; DC15V 255W	220VAC、50Hz ; DC15V 255W



# Real Time PCR System

PCR-Q32-4    PCR-Q32-4F



7-inch high-definition TFT color touch screen



Four channel and double 16-well blocks



Superior performance and stable detection results



Complete quantitative analysis and printing report



## Description

- This product adopts four channel and double 16-well blocks, which can run two different files simultaneously. The product combines a variety of advanced technologies; 7-inch high-definition TFT color touch screen, Win10 operating system with analysis software, complete quantitative analysis and printing report without computer. It adopts American Marlow custom-made peltier, high sensitivity photoelectric detector and side scan technology, to ensure superior performance and stable detection results.

## Features



- Powerful software analysis function, which can be used for Quantitative Analysis, Melting Curve Analysis, Genotyping, etc. 7-inch high-definition TFT color touch screen, and embedded Win 10 operating system.
- LED light source has the advantage of energy saving, environmental protection, long service life and maintenance free.



- Constant current control circuit makes power output smooth and extends Peltier life, also improves temperature control accuracy; It has the protection functions of over-current, over temperature, power-off data self recovery, etc.



- Front shutdown button makes file data more secure.



- 20G flash memory can save 40,000 experimental data.



- Printer as an optional which can print the records directly, no need to connect the computer.

- Four channels and double 16-well blocks design, can run two different programs at the same time.
- Small size, light weight, easy to carry.
- Imported 32 bundled optical fibers are used to collect fluorescence from the side to increase the intensity of fluorescence signal and reduce light conduction damage.
- Black reaction block to avoid background noise.
- The electromagnetic lock cover technology prevents the hot lid from accidentally opening.
- Forward and backward air vent design, can be placed side by side, saving laboratory space.

## Specifications

Model	PCR-Q32-4	PCR-Q32-4F
Sample Capacity	32×0.2ml(4×8well, dual block)	
Consumable	Clear 0.2 ml PCR tube /8-tube strips	
Reaction Volume	15-100µL	
Temperature control technology	Marlow customized Peltier allow 1,000,000 cycles	
Temperature Range	0-100℃ (Resolution: 0.1℃)	
MAX. Ramp Rate	5℃/s	8℃/s
Temperature fluctuation	±0.1℃	
Uniformity	±0.25℃	
Accuracy	±0.25℃	
Hot Lid Temperature	30-115℃ (Adjustable, default 105℃)	
Temperature Control	Block/Tube	
Excitation Wavelength	300-800nm	
Detection Wavelength	500-800nm	
Factory Calibrated Dyes	F1: FAM/SYBR Green I; F2: HEX/VIC/JOE/TET; F3: ROX ; F4: CY5	
Excitation	Long life LED	
Detection	High sensitivity photoelectric detector	
Dynamic Range	1-10 <sup>10</sup> Copies	
Sensitivity	1 copy	
Feature function	Quantitative/qualitative analysis, Melting curve, Genotyping	
Date Export Formats	Excel, CSV, Txt	
Printing	Report can be printed (optional USB thermal printer)	
Control Method	7 inch color TFT touch screen, Can be connected to computer control	
Communication	WIFI/USB2.0	
Dimension (L×W×H)	300×267×198mm	
Net Weight/G.W.(kg)	8Kg	11Kg
Electricity	220VAC、50Hz ; DC15V 255W	220VAC、50Hz ; DC29V 600W
Package Dimension(W*D*H)(mm)	480*400*340	/

# Real-Time PCR System 96 hole QPCR

PCR-Q96-5    PCR-Q96-6



## Description

As a necessary choice for quantitative analysis of molecular biology, real-time PCR system has been widely used in various fields such as scientific research, clinical detection and diagnosis, quality and safety testing, and forensic applications.



## Description

- Up to 6 fluorescence detection channels allowing multiplex PCR.
- Effectively reduce multi-color crosstalk and edge effect, no ROX correction required.
- New optical scanning detection system
- Innovative scanning method and time-resolved signal separation technology
- Unique edge temperature compensation technology
- User-friendly software

## Specifications

Model	PCR-Q96-5	PCR-Q96-6
Sample capacity	0.1ml PCR tubes×96, 8×12 PCR plate or 96 well plate ×1	
Reaction volume	10-50 μl	
Thermal cycle technology	Peltier	
Max. Heating/Cooling rate	6.0° C/s	
Heating temperature range	4 – 100 °C	
Temperature accuracy	± 0.2°C	
Temperature uniformity	±0.2°C @60°C , ±0.2°C @95°C	
Temperature gradient setting range	30-100°C	
Temperature gradient difference setting range	1 – 36°C	
Detection system		
Excitation light source	5 monochrome high efficiency LEDs	6 monochrome high efficiency LEDs
Detection device	MPPC	
Detection mode	Time-resolved signal separating technology	
Excitation/detection wavelength range	455-650nm/510-715nm	
Fluorescent channels	4 channels	6 channels
Supported dye	FAM/SYBR Green, VIC/JOE/HEX/TET, ABY/NED/TAMRA/Cy3, JUN, ROX/Texas Red, Mustang Purple, Cy5/LIZ	
Sensitivity	Single copy gene	
Resolution	1.33 folds copy number difference can be distinguished in single-plex qPCR	
Dynamic range	10 orders of magnitude copies	
Package Dimension (W*D*H)(mm)	960*660*750	980*670*760
G.W.(kg)	47	46

# Real-time PCR system

## PCR-Q96-6P



## Features

- Strong fluorescence signal with low background noise and high sensitivity.
- Simultaneous 6-channel scanning of 96 samples within 5s.
- Energy-saving, eco-friendly LED light source with long service life and maintenance-free design.
- Automatic hot lid compatible with automated workstations to improve operational efficiency.
- PC-based operation allows a single computer to control multiple instruments.
- Powerful software supports for qualitative/quantitative analysis, HRM, genetic typing, relative quantification, and temperature gradient functions.

## Description

Adhering to the principles of high efficiency and quality, this system integrates an advanced temperature control system, a precision optical system, and powerful software analysis functions. It supports a wide range of applications, such as qualitative/quantitative analysis, genotyping, allele identification, HRM, and melting curve analysis. The product utilizes side-scan technology, where signals from all channels are collected simultaneously. It has powerful software and hardware functions to meet different needs.

## Specification

Model	PCR-Q96-6P
Sample Capacity	96-well plate, 12*8 strips, 96*0.2ml single tubes
Consumables	0.1/0.2ml tubes, 0.1/0.2ml 8-tube strips, 0.1/0.2ml skirtless and semi-skirted 96-well plates (0.2 ml recommended)
Reaction Volume	10~100 $\mu$ L
Temperature Range	0~100 $^{\circ}$ C (Resolution: 0.1 $^{\circ}$ C)
Max. Ramp Rate	8.0 $^{\circ}$ C/s
Temp. Control Accuracy	$\pm$ 0.1 $^{\circ}$ C
Uniformity	$\pm$ 0.20 $^{\circ}$ C
Accuracy	$\pm$ 0.20 $^{\circ}$ C
Gradient Spread	0.1~42 $^{\circ}$ C
Hot Lid Temperature	30~115 $^{\circ}$ C (Adjustable, default 105 $^{\circ}$ C)
Lid Operation	Automatic hot lid
Temperature Control	Block/Tube
Excitation Wavelength	300nm~810nm
Emission Wavelength	500nm~810nm
Detection Channels	6 channels
Detection Method	Simultaneous scanning of all channels
Scan Period	5 seconds for full 96-well scan
Factory Calibrated Dyes	F1: FAM/SYBR Green/ EvaGreen; F2: HEX/VIC/JOE/TET/YELLOW; F3: ROX/Texas Red; F4: Cy5; F5: Cy5.5; F6: Cy3 (customized)
Excitation	Long-life LED
Detection	High-sensitivity photoelectric detector
Dynamic Range	1~10 <sup>10</sup> copies
Sensitivity	1 copy
Software Functions	Qualitative/absolute quantification, relative quantification, genotyping, HRM, melting curve, standard curve, allele identification, temperature gradient, etc.
Remote Monitoring	Can be connected to laboratory management system
Automation Platform	Can be used with automated workstations
Data Export Formats	Excel, CSV, TXT, PDF
Printing	Direct report printing supported
Control Method	12.1-inch color touchscreen; PC control supported
Communication	USB 2.0, RS 232
Electricity	100~240 VAC, 50~60 Hz
Power	1500W
Dimensions (L*W*H)	520*350*330mm
Weight	32kg