

Life Science

Heal Force Real-Time PCR

A platform you can depend on





***Humanization Design***

Advanced programming function like gradient and touch-down

The machine can be connected with Pc through WI-Fl or LAN

Software allows you to manage and monitor several x960s from your computer

Low noise, low energy consumption, long life-span

***Product Introduction***

The X960 Real-Time PCR system is a high-performance benchtop instrument giving you greater control of your experiment data. It delivers reliability, sensitivity, and accuracy, which is optimized to enable the broadest range of quantitative PCR applications

In real-time quantitative PCR(qPCR), PCR product is measured at each cycle. By monitoring reactions during the exponential amplification phase of the reaction, users can determine the initial quantity of the target with great precision without involving post-PCR analysis such as gel electrophoresis and image analysis

***Precise Temperature Control***

Block utilizes most advanced Peltier-based technology with high amplification efficiency

Up to 6 C/s maximum ramp rate saves your valuable time dramatically

Two independent temperature control mode- block and tube, maximize control flexibility

Excellent temperature uniformity limits the variation between wells, ensuring the accuracy of low copy sample

***Innovative Optical Design***

Two channel(X960A)and five channel(X960B)fluorescent detection system with

LED light source and high resolution CCD

The optical system automatically collects data from all wells during data acquisition at the same time

X960 can discriminate up to five targets in a single reaction well

The optical filter sets are designed to maximize fluorescence detection for specific dyes in specific channels

Compatible with different reagent and consumables

***Ready to Run***

Factory calibrated for optical and thermal accuracy, the instrument is delivered ready for quick installation and use

***Powerful Software***

X960 Manager Software accommodates individual needs with intuitive navigation and customizable settings

The software can be used for a variety of applications including absolute/relative quantification, melting curve( dissociation curve),etc

With integrated powerful visualization tools, the data is analyzed on machine directly



**X960** Real-Time

PCR Systems

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**Lid**

3D style design with well pressure distribution and heat preservation

Unique sliding track is convenient for sample operation

**Robust construction**

6mm aluminium alloy main body with solid construction, nice looking curves

and fresh color

Adjustable footing designed for

achieving balance easily

**Software**

Independent software analysis module

Intuitive software design enables easy experiment setup and an interactive system allows you to get results faste

**Operation system**

Developed upon Linux operation system, and equipped with A8 CPU for better control experience

**Blocks**

Compatible with 96-well plate, 12-well strip tubes, 8-wel strip tubes

High quality peltier plates ensure amplification efficiency

Standard gold-plating promotes heat conduction performance

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| --- | --- | --- |
| *Model*Technical specifications | **X960A** | **X960B** |
| Channel | 2 | 5 |
| Reactions per run | 96 | 96 |
| Block Format | 96-well 0.2-ml | 96-well 0.2-ml |
| Color Combinations | Up to 2 | Up to 5 |
| Light source | High brightness monochrome LED | High brightness monochrome LED |
| Detector | Highly sensitive ∞ld light CCD | Highly sensitive cold light CCD |
| Detection dynamic range | 102-101° | 102-101° |
| Sensitivity | Down to 1 ∞py | Down to 1 copy |
| Reaction volume | 15ul-100ul | 15ul-100ul |
| Chemistry | All real-time PCR-based chemistries. Flexibility for chemistries with or without passive reference dye. |
| Excitation source | White LED | White LED |
| Excitation filters∕∞lors | Channell: 470nm Channel: 525nm | Channell: 470πm Channel: 525nm |
|  | - | Channels： 585 nm Channel4: 625nm |
| Detection filters/colors | Channell: 520 nm Channel: 570 πm | Channell: 520 nm Channel: 570 nm |
|  | - | Channels： 620 nm Channel4： 675 nm |
| Kits & Reagent | Channell: FAM/SYBR | Channell: FAM/SYBR |
|  | Channel: VIC/HEX/JOE/TET/TAMRA | Channel: VIC∕HEX∕JOE∕TETΠAMRA |
|  | - | Channels： ROXfΓEXRAD |
|  | - | Channel4: CY5 |
| Block Material | Peltier | Peltier |
| Accuracy | ±0.ΓC | ±0.ΓC |
| Temp Uniformity | ±0.4 C (10 sec after reaching 95 C) | ±0.4C(10 sec after reaching 95C) |
|  | ±0.2 C (10 sec after reaching 55 C) | ±0.2 C (10 sec after reaching 55 C) |
| Temp Range | 0'C-100'C | 0C-100C |
| Max. ramp rate | 6C | 6C |
| Gradient range | 30C-100C | 30,C-100C |
| PC Operation system | WindowsXP∕VISTA∕Windows7∕Window8 | WindowsXP∕VISTA∕Windows7∕Window8 |
| X960 Operation system | linus | linus |
| CPU | A8 | A8 |
| Network | LAN /WIFI | LAN /WIFI |
| Multiple control | Support | Support |
| Applications Available | Gene Expression, Genotyping, Copy Number ∖^riation, Protein Detection, MicroRNA, Pathogen Detection |
| Size | W 592 ×D 440 × H 280 mm | W 592 × D 440 × H 280 mm |



Heal Force Bio-Meditech Holdings Group

Heal Force International Trading（shanghai）Co.Ltd

6788 songze Road，Qinpu District，shanghai201706，P.R.China

Tel： +86 21 62728646 E-mail：export@healforce.com

Fax： +86 21 62710529

Website： [www.healforce.com](http://www.healforce.com)

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