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Customer-First Service



Professional Technical  
Support Team



Worry-Free  
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NMPA

FDA



## Gentier 96E/96R

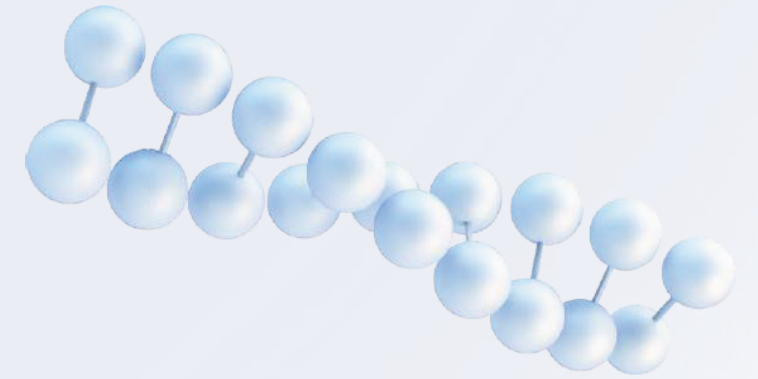
### Real-Time PCR System



TAILORED FOR HIGH-END  
LABORATORY NEEDS



*Bring Technology to Life !*



## Gentier 96E/96R Real-Time PCR System

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Gentier 96E/96R Real-Time PCR System is designed to meet the experimental needs of high-end laboratories. For its excellence in quality and performance, it is included in the Catalogue of Excellent Domestic Medical Equipment released by China Association of Medical Equipment. With the 6 (96E)-/4 (96R)- fluorescence channels, Gentier 96E/96R can process 96 samples in one run. Various downstream applications including multiplex gene qualitative detection, quantitative analysis, SNP analysis, and melting curve analysis, can be carried out easily with the powerful and efficient temperature control system and fluorescence system, easy-to-use software, user-friendly operational designs.

## DESIGNED FOR HIGH-END USERS







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## Establishment Registration & Device Listing

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**Proprietary Name:** Real time PCR System- Gentier 94E, Gentier 96R, Gentier 96C, Gentier 96S, Gentier 48E, Gentier 48R, Gentier Mini

**Classification Name:** INSTRUMENTATION FOR CLINICAL MULTIPLEX TEST SYSTEMS

**Product Code:** NSJ

**Device Class:** 2

**Regulation Number:** 862.2570

**Medical Specialty:** Clinical Chemistry

**Registered Establishment Name:** XIAN TIANLONG SCIENCE&TECHNOLOGY CO., LTD.

**Registered Establishment Number:** 30122596K2

**Owner/Operator:** Xian Tianlong Science&Technology Co., Ltd.

**Owner/Operator Number:** 10075326

**Establishment Operations:** Manufacturer

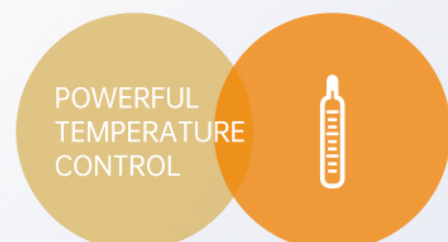
[illegible]

## FEATURES



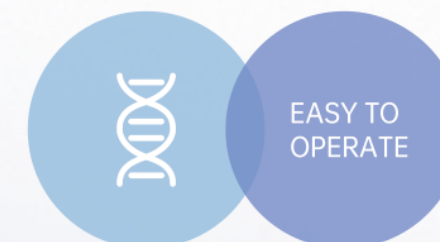
### EFFICIENT FLUORESCENCE

The 6 (96E)-/4 (96R)- fluorescence channels compatible with most of the common fluorescent dyes and probes of regular detection reagents. Specifically, the FRET (Fluorescence Resonance Energy Transfer) channel enables lower background fluorescence value and higher sensitivity for your detection needs. Also, the high-brightness, long-life LED light source can be maintenance-free for life.



### POWERFUL TEMPERATURE CONTROL

The maximum heating ramp rate is  $\geq 6.1^{\circ}\text{C/s}$ , and the maximum cooling ramp rate is  $\geq 5.0^{\circ}\text{C/s}$ , for quicker completion of your assays; the temperature accuracy is  $\leq 0.1^{\circ}\text{C}$  to ensure accurate results.



### EASY TO OPERATE

Automated sample chamber; cloud-enabled control from PC via network connection; or stand-alone operation with the built-in 10.4-inch touch screen; data storage of at least 1,000 experiments within the instrument.



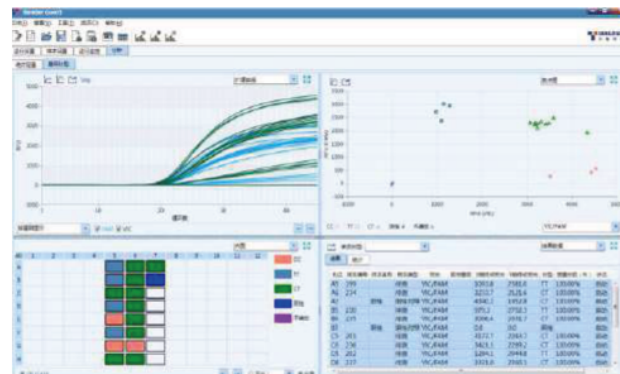
### POWERFUL SOFTWARE

Capable of various data analyses to meet the needs of most experiments, including qualitative analysis, absolute quantitative analysis, relative quantitative analysis, end-point fluorescence analysis, melting curve analysis, etc. Featured Power Failure Protection design, no more concern about instantaneous power failure.

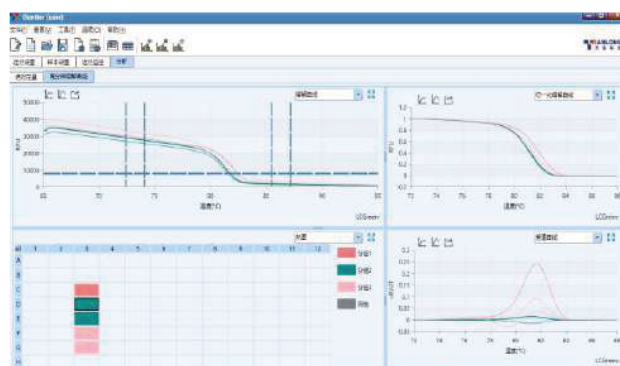
## DATA DISPLAY



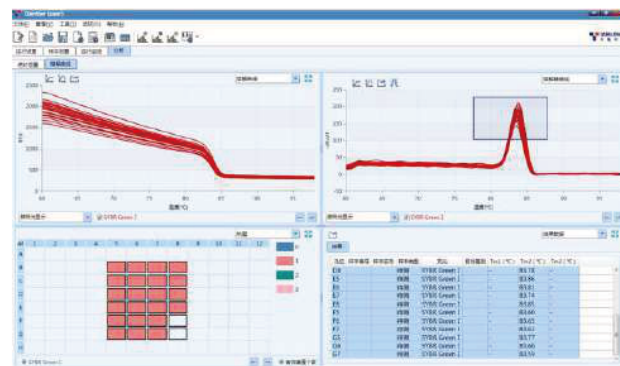
Consistency



Endpoint Fluorescence Genotyping



Melting curve analysis - Example 1



Melting curve analysis - Example 2

## AREAS OF APPLICATIONS

Gentier 96E/96R Real-Time PCR System is designed for experimental analyses characterized by Polymerase Chain Reaction (PCR) for the purpose of DNA/RNA detection, and can be widely used in a variety of areas including clinical diagnosis, epidemiological monitoring, food safety, forensics and scientific research, etc.



### CLINICAL DIAGNOSIS



### FORENSICS

### FOOD SAFETY



### SCIENTIFIC RESEARCH



### EPIDEMIOLOGICAL MONITORING



## GENTIER 96E/96R IN CUSTOMER APPLICATIONS

With Gentier 96E/96R Real-Time PCR System has been proudly serving Tianlong customers including thousands of medical institutions, CDCs, customs, food & beverage enterprises, forensic institutions, universities and research institutes in over 50 countries around the world, and has received unanimous praise from customers.



China National Biosafety Laboratory (CCTV News)



A disease control center in South Korea



Customized for an IVD company (Singapore)



A medical center in Kazakhstan



China-Japan Friendship Hospital (Beijing, China)



Tongji Hospital (Wuhan, China)

## SPECIFICATIONS

| Model                                      | Gentier 96E                                                                                                                                                                                | Gentier 96R                                                                                                                               |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Throughput                                 | 96                                                                                                                                                                                         |                                                                                                                                           |
| Fluorescence Channels                      | 6                                                                                                                                                                                          | 4                                                                                                                                         |
| Compatible Fluorophores                    | Channel 1: FAM, SYBR Green I, SYTO 9, Eva Green, LC Green<br>Channel 2: HEX, VIC, TET, JOE<br>Channel 3: ROX, Texas Red<br>Channel 4: Cy5<br>Channel 5: Alexa Fluor 680<br>Channel 6: FRET | Channel 1: FAM, SYBR Green I, SYTO 9, Eva Green, LC Green<br>Channel 2: HEX, VIC, TET, JOE<br>Channel 3: ROX, Texas Red<br>Channel 4: Cy5 |
| Light Source                               | High-brightness, long-life and maintenance-free LED light source, excitation from the top                                                                                                  |                                                                                                                                           |
| Detector                                   | Photodiode (PD), top scanning                                                                                                                                                              |                                                                                                                                           |
| Heating Rate                               | Maximum heating ramp rate $\geq 6.1^{\circ}\text{C/s}$ ; Average heating ramp rate $\geq 4.5^{\circ}\text{C/s}$                                                                            |                                                                                                                                           |
| Cooling Rate                               | Maximum cooling ramp rate $\geq 5.0^{\circ}\text{C/s}$ ; Average cooling ramp rate $\geq 2.8^{\circ}\text{C/s}$                                                                            |                                                                                                                                           |
| Temperature Uniformity                     | $\pm 0.1^{\circ}\text{C}$                                                                                                                                                                  |                                                                                                                                           |
| Temperature Accuracy                       | $\leq 0.1^{\circ}\text{C}$                                                                                                                                                                 |                                                                                                                                           |
| Special Temperature Setting Function       | Support thermal gradients PCR, Long PCR, Touch Down PCR                                                                                                                                    |                                                                                                                                           |
| Suitable Consumables                       | 0.2 mL 96-well plates, 8-tube strips, single tubes (clear, frosted and white)                                                                                                              |                                                                                                                                           |
| Sample Testing Linearity and Repeatability | Linear Correlation: $ r  \geq 0.999$<br>Repeatability: cycle threshold (Ct) value CV $\leq 0.5\%$                                                                                          |                                                                                                                                           |
| Software Analysis                          | Qualitative analysis, absolute quantitative analysis, relative quantitative analysis, end point fluorescence analysis, melting curve analysis, and genotyping analysis, etc.               |                                                                                                                                           |
| Control Method                             | Stand-alone operation: 10.4-inch touchscreen control;<br>Cloud-enabled: PC software control via direct connection or LAN (local area network)                                              |                                                                                                                                           |
| Power Failure Protection                   | Automatic recovery of the experiment and other functions when the power is on again after cutting off, without waiting for the power-on of the computer or software control                |                                                                                                                                           |
| Data Storage and Transmission              | A single machine can store more than 1000 experimental data files, which can be imported and exported via USB disks                                                                        |                                                                                                                                           |
| Reporting Function                         | Built-in experiment report templates for a variety of industries; Fully open universal reporting of which the contents and formats can be customized                                       |                                                                                                                                           |
| Operating System for PC                    | Win 7, Win 10                                                                                                                                                                              |                                                                                                                                           |
| Instrument Dimensions                      | 355mm×475mm×484mm (W×L×H)                                                                                                                                                                  |                                                                                                                                           |
| Weight                                     | 30kg (net)                                                                                                                                                                                 |                                                                                                                                           |
| Power Supply and Power Consumption         | AC 100-240V, 50-60Hz; 900VA                                                                                                                                                                |                                                                                                                                           |