

# Real-time PCR System

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## Esan-Gene 162 / 164



**Efficient and Convenient**  
for Stand-alone Use

**Diverse Analysis**  
and Wide Adaptability

**Excellent Performance**  
and Stable Results

## Product Introduction

Esan-Gene 162 / 164 real-time PCR system, with 2-channel / 4-channel 16-well, portable and convenient for on-site rapid inspection and quarantine, disease prevention and control, food safety, agriculture, forestry and biochemistry and other occasions, is a real-time detection portable QPCR.

## Feature

### Efficient and Convenient for Stand-Alone Use

- 7-inch touch screen, windows operating system, simple and convenient operation
- A single machine can complete operations such as setting, testing, judging, and saving
- Equipped with USB, network port, data download is convenient, and can be directly connected to the printer for printing
- Small size and light weight for easy handling and portability, high adaptability



### Diverse Analysis and Wide Adaptability

- Qualitative / quantitative detection, melting curve, genotyping, isothermal amplification and other modes of analysis
- Negative and positive results are automatically interpreted without other calculations

### Excellent Performance and Stable Results

- LED light source: maintenance-free, high brightness, high stability
- High detection throughput: can support up to 4 channels, 16 samples per run, efficient and accurate
- High-sensitivity photodetector to ensure stable performance and results

## Powerful and Flexible Software

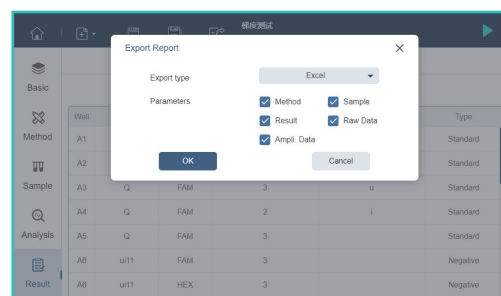
### Function layout is simple and easy to understand

- Function partition, simple operation and easy to use
- Detailed running result records, easy to review the experimental results



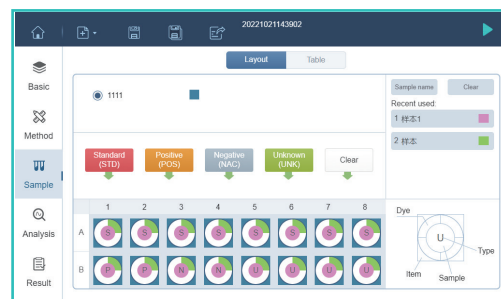
### Easy and fast data export

- Multiple data export types PDF, Excel, etc.
- Comprehensive experimental parameter arrangement



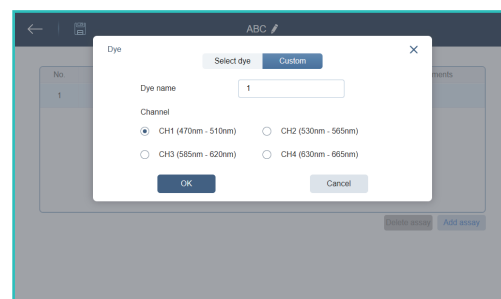
## Diversified program settings

- Layout directly on the machine
- Import the program from USB drive
- Convenient project library calling



## The instrument can be set to 4 channels and a variety of test item types

- 4 different wavelengths can be selected
- Open software, can match reagents from different manufacturers
- A variety of parameter settings are available, which can detect various items such as F1 FAM, SYBR Green I, etc., F2 HEX, JOE, VIC, etc., F3 ROX, etc., F4 Cy5, etc.



## Specification

Model	Esan-Gene 162	Esan-Gene 164
Detection throughput	16-well	16-well
Sample volume	15-100 $\mu$ L	15-100 $\mu$ L
Consumable	0.2 mL thin wall transparent 8-strip tube 0.2 mL thin wall transparent single tube	0.2 mL thin wall transparent 8-strip tube 0.2 mL thin wall transparent single tube
Dynamic range	1-10 <sup>10</sup> Copies	1-10 <sup>10</sup> Copies
Linearity	$ r  \geq 0.999$	$ r  \geq 0.999$
Number of channels	Channel 1: 470 nm-510 nm Channel 2: 530 nm-565 nm	Channel 1: 470 nm-510 nm Channel 2: 530 nm-565 nm Channel 3: 585 nm-620 nm Channel 4: 630 nm-665 nm
Excitation light source	LED (maintenance free)	LED (maintenance free)
Detection element	PD	PD
Channel parameters (by instrument model)	F1: FAM, SYBR GreenI etc. F2: HEX, JOE, VIC etc.	F1: FAM, SYBR GreenI etc. F3: ROX etc. F2: HEX, JOE, VIC etc. F4: Cy5 etc.
Temperature control mode	Block / tube	Block / tube
Temperature range	4~99.9 $^{\circ}$ C	4~99.9 $^{\circ}$ C
Temperature control method	Semiconductor chilling plate	Semiconductor chilling plate
Temperature accuracy	$\pm 0.15$ $^{\circ}$ C	$\pm 0.15$ $^{\circ}$ C

## Specification

Model	Esan-Gene 162	Esan-Gene 164
Temperature control precision	0.1 °C	0.1 °C
Temperature uniformity	±0.2 °C @95 °C	±0.2 °C @95 °C
Maximum heat-up rate	6 °C/s	6 °C/s
Maximum cooling rate	6 °C/s	6 °C/s
Average heat-up rate	4 °C/s	4 °C/s
Average cooling rate	4 °C/s	4 °C/s
Melting temperature	Minimum difference 0.1 °C	Minimum difference 0.1 °C
Thermo lid temperature	30~110 °C	30~110 °C
Input power	100-240 V AC 50-60 Hz	100-240 V AC 50-60 Hz
Maximum power	200 W	200 W
Security protection and alarm	Support short circuit, broken circuit and over temperature protection and alarm	Support short circuit, broken circuit and over temperature protection and alarm
Net weight	5.9 kg	5.9 kg
Dimension (W×D×H)	200×297×148 mm	200×297×148 mm

## Ordering Information

Code	Description	Model	Remark
AS-30010-00	Real-time PCR system	Esan-Gene 162	2-channel
AS-30020-00	Real-time PCR system	Esan-Gene 164	4-channel

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