

Real-time Quantitative PCR System

Esan-Gene 162 / 164



Efficient and Convenient
for Stand-alone Use

Diverse Analysis
and Wide Adaptability

Excellent Performance
and Stable Results

Product Introduction

16-Well Real-time Quantitative PCR System

Esan-Gene 162 / 164 real-time quantitative 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.



Efficient and convenient for stand-alone use ----

with an intelligent operating system, 7-inch full-color high-definition touch screen operation, smooth setting experience



Diverse analysis and wide adaptability -----

qualitative / absolute quantification, relative quantitative detection, melting curve, genotyping, isothermal amplification and other modes of analysis



Excellent performance and stable results -----

use maintenance-free, high-brightness and stable LED light source with high-sensitivity photodetector to ensure stable performance and results

Feature

Stand-alone use, diverse analysis

- A single machine can complete operations such as setting, testing, judging, and saving
- Multiple analysis modes to meet monitoring requirements: qualitative / quantitative detection, melting curve, genotyping, isothermal amplification, etc.

Quick start, simple and convenient

- 7-inch touch screen, windows operating system, simple and convenient operation
- Negative and positive results are automatically interpreted without other calculations
- Equipped with USB, network port, data download is convenient, and can be directly connected to the printer for printing

Efficient detection 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

Light and portable, high adaptability

- Small size: 200 mm×297 mm×148 mm
- Light weight for easy handling and portability

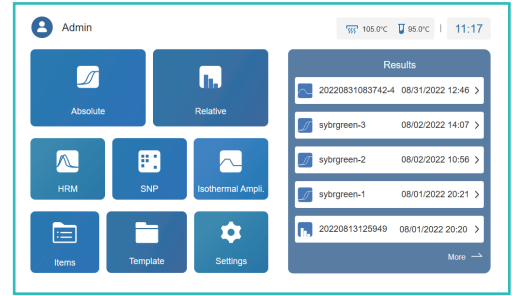
Ordering Information

Code	Description	Model	Remark
AS-30010-00	Real-time quantitative PCR system	Esan-Gene 162	\
AS-30020-00	Real-time quantitative PCR system	Esan-Gene 164	\

Powerful and Flexible Software

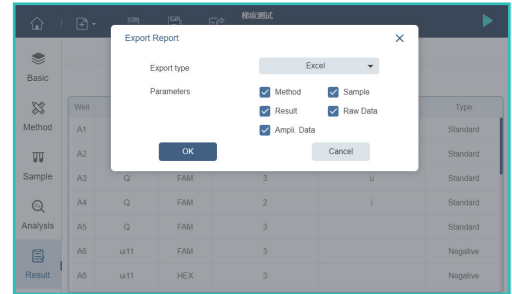
Function layout is simple and easy to understand

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



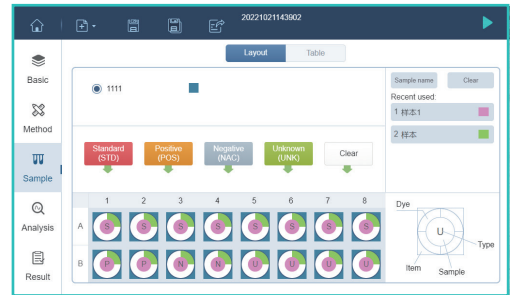
Easy and fast data export

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



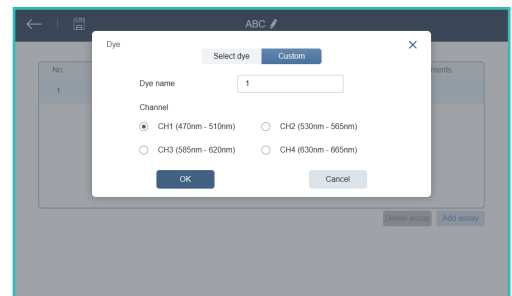
Diversified program settings

- 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	10-100 μ L	10-100 μ L
Consumable	0.2 mL thin wall transparent 8-strip tube	0.2 mL thin wall transparent 8-strip tube
	0.2 mL thin wall transparent single tube	0.2 mL thin wall transparent single tube

Specification

Model	Esan-Gene 162	Esan-Gene 164
Dynamic range	1-10 ¹⁰ Copies	1-10 ¹⁰ Copies
Fluorescence wavelength	400~750 nm	400~770 nm
Number of channels	Channel 1: 515 nm-535 nm Channel 2: 535 nm-555 nm	Channel 1: 515 nm-535 nm Channel 2: 535 nm-555 nm Channel 3: 600 nm-620 nm Channel 4: 665 nm-695 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	Block
Temperature range	4~99 °C	4~99 °C
Temperature control method	Semiconductor chilling plate	Semiconductor chilling plate
Temperature accuracy	±0.15 °C	±0.15 °C
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	4.0 °C/s	4.0 °C/s
Maximum cooling rate	3.0 °C/s	3.0 °C/s
Average heat-up rate	2.0 °C/s	2.0 °C/s
Average cooling rate	2.0 °C/s	2.0 °C/s
Melting temperature	Minimum difference 0.1 °C	Minimum difference 0.1 °C
Thermo lid temperature	30~110 °C, default module +10 °C	30~110 °C, default module +10 °C
Thermo lid temperature accuracy	±2 °C	±2 °C
Thermo lid temperature control precision	0.1 °C	0.1 °C
Input power	220 V AC 50 Hz	220 V AC 50 Hz
Input 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	\	\
Dimension (W×D×H)	200×297×148 mm	200×297×148 mm

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