zybio

Fast Real-time PCR System

(EXP160)

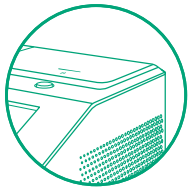
Molecular

www.zybio.com

Fast Real-time PCR System(EXP160)

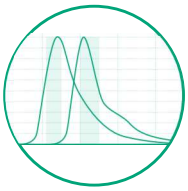
EXP160 nucleic acid amplification analyzer belongs to Zybio new generation qPCR system, which uses in vitro amplification on the basis of real-time fluorescence polymerase chain reaction to detect specific targets. Equipped with two independent 8-well thermal modules, the EXP160 analyzer can run two different programs separately, providing you with high flexible detection strategy. Zybio EXP160 is suitable for different application such as pathogen detection, genotyping, gene therapy drug, gene expression, public health, etc.

Features



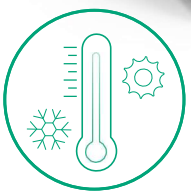
Flexible detection strategy

- Two independent 8-well thermal modules, different programs can be operated together
- Multiple preset projects, customized programs are also available



Excellent optical system

- High efficiency LEDs light source, maintenance free for life
- Unique time-resolved signal separation technology, no multi-color crosstalk
- Patented software, which helps processing the data efficiently to ensure the accuracy



Advanced temperature control

- Peltier module as key thermal control component, brings high accuracy and uniformity
- First-class temperature control system in market, fast speed and long lifespan. The max heating rate can reach up to ≥ 5.0 °C/s
- Greatly shorten the PCR time for lots of reagents in market

Main Application Scenarios

Molecular biology lab

Hospital clinical Dpt.

Gene expression

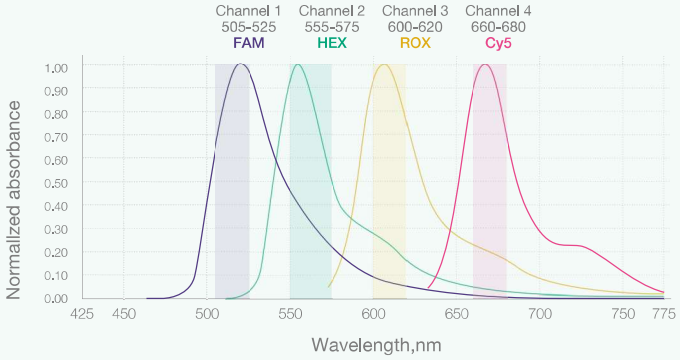
Public health

Wide Applications

- Basic scientific research
- Pathogen detection
- Genotyping
- Gene therapy drug
- Gene expression
- Public health

Four Fluorescence Channels, support most of common dyes

Detection Reporter dye:



Technical parameters

Product parameters	Details
Model	EXP160
Dimensions(W×D×H, mm)	360 X 330 X 260
Weight	12.5kg
Throughput	16 tests per run (2 X 8 wells)
Reaction volume	15 – 100 μL
Fluorescent channels	4 detection channels
Operation speed	as fast as 35min
Temperature range	30-110 °C
Maximum heating rate	≥ 6.4 °C/s
Maximum cooling rate	≥ 5.4 °C/s
Temperature fluctuation	≤ 1 °C
Temperature accuracy	≤ 0.5 °C
Dynamic range	10^0 - 10^{10} copies
Excitation light source	High effificiency LEDs
Fluorescence linear	R ≥ 0.990
Applications	Qualitative/ Absolute Quantification Analysis
Fluorescence repeatability	CV ≤ 1%
Report	Multiple printing templates/ customized template
LIS support	Yes
Working Temperature	10-30 °C