



# Fast Real-time PCR System

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(EXP160)



Molecular



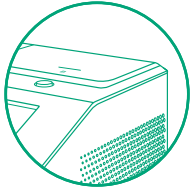
## Fast Real-time PCR System(EXP160)

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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, food safety testing, public health, animal health, etc.

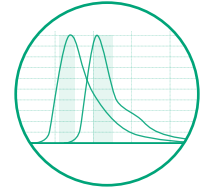


# Features



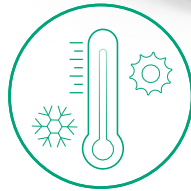
## Flexible detection strategy

- 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 average heating rate is higher than 5.8 °C/s
- Greatly shorten the PCR time for lots of reagents in market

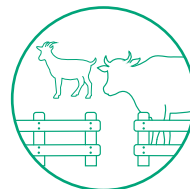
# Main Application Scenarios



Molecular biology lab



Hospital clinical Dpt.



Farm hospital



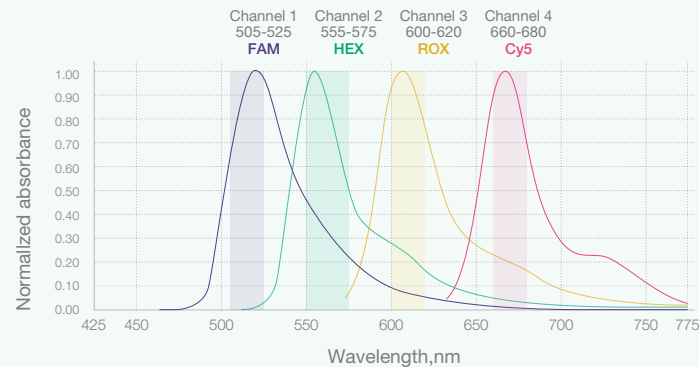
Pet clinic

## Wide Applications

- Basic scientific research
- Pathogen detection
- Genotyping
- Gene therapy drug
- Gene expression
- Food safety testing
- Public health
- Animal 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 30 min
Temperature range	30-110 °C
Average heating rate	≥ 5.8 °C/s
Average cooling rate	≥ 4.8 °C/s
Temperature fluctuation	≤ 1 °C
Temperature accuracy	≤ 0.3 °C
Dynamic range	10 <sup>0</sup> - 10 <sup>10</sup> copies
Excitation light source	High efficiency 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

# Classic Examples

- Detection kit:**

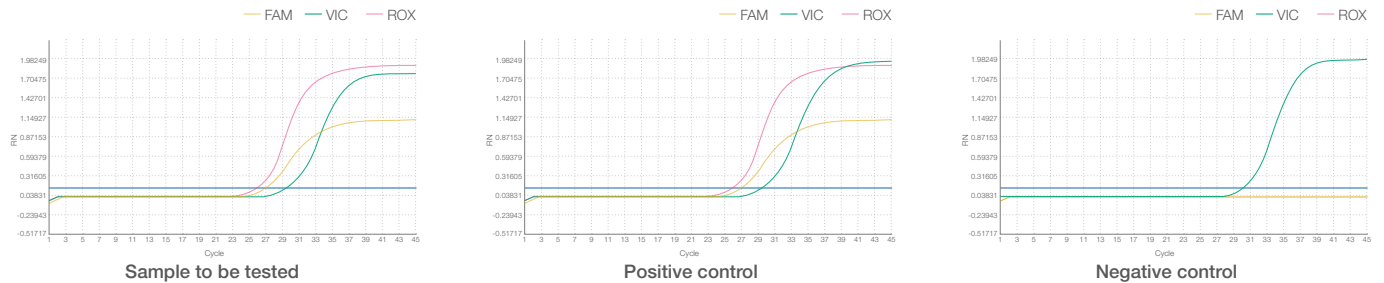
SARS-CoV-2 nucleic acid detection kit (Zybio)

- Cut-off Value:**

result is claimed positive when the Ct of two targets(FAM, ROX) <40.

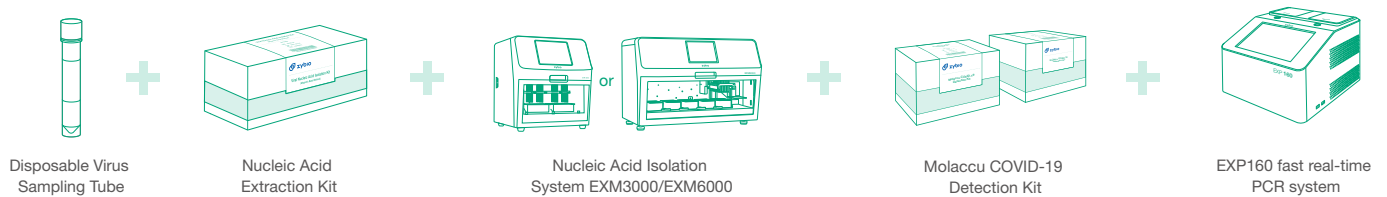
- Result analysis:**

Positive control and negative control are normal, sample to be tested is positive. The corresponding amplification curves are as follows:



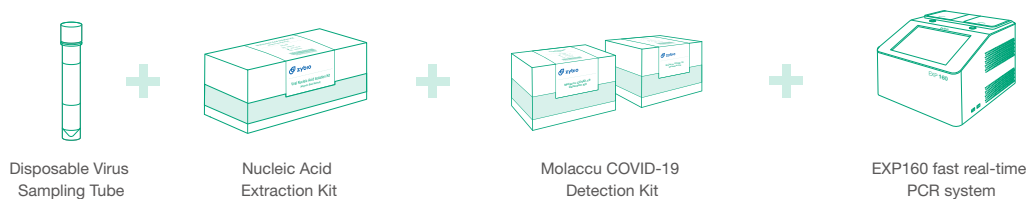
# Integrated Solution of SARS-CoV-2 Nucleic Acid Detection

- Plan 1: High-throughput Nucleic Acid Isolation system + PCR System**



- EXM6000: 96 Samples per load, in 12 minutes only.
- EXM3000: 32 Samples per load, in 9 minutes only.
- EXP160: 16 samples per load, 50-55 mins by using Molaccu PCR kit; 30 minutes by using fast qPCR kits.
- Fulfill your high volume test demand with superior speed.

- Plan 2: Manual Extraction + PCR System**



- Flexible extraction strategy, suitable for different scenario.
- Nucleic acid release tube is also available, 4 minutes for lysis and nucleic acid absorption.



**Zybio Inc.**

Address: Floor 1 to Floor 5, Building 30, No.6 of Taikang Road,  
Block C of Jianqiao Industrial Park, Dadukou District, 400082 Chongqing,  
PEOPLE'S REPUBLIC OF CHINA

Tel: +86-23 6865 5509 Fax: +86-23 6869 9779

Email: [info@zybio.com](mailto:info@zybio.com) Website: [www.zybio.com](http://www.zybio.com)

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