Quantitative Real-time PCR system

(ZIP-96V)

Quantitative real-time PCR system ZIP-96V is 96-well real-time PCR instrument based on Fresnel lens optical signal acquisition technology, time-resolved signal separation technology and unique temperature control technology.

User-friendly for first-time and experienced operators

- No ROX correction required
- Preset projects, such as COVID-19, influenza A/B project

Advanced temperature control block

- The high-level Peltier chip combined with a new generation of semiconductor heating and cooling technology greatly improves the heating and cooling rate, and the heating rate can reach up to 6°C/s
- Six independent temperature control blocks improve the accuracy and uniformity of temperature control

Excellent optical system

- Use high efficiency LEDs light source, maintenance-free for life
- Unique test tube side daylighting technology, four-channel fast daylighting only takes 20s, automatically adjusts gain, improves the fluorescence signal sensitivity and signal to noise ratio
- Unique time-resolved signal separation technology, no multi-color crosstalk

Technical parameters

Basic parameters

Model	ZIP-96V
Dimensions (W×D×H, mm)	425*320*205
Weight	13.5Kg
Throughput	Up to 96 tests per run
Reaction volume	20-100μL
Sample Format	0.2ml PCR tube/ 8-strip PCR tube/ 96-well plate
Supported dye	Channel 1: FAM Channel 2: VIC, HEX Channel 3: ROX Channel 4: CY5
Fluorescent channels	4 detection channels

Thermal cycle technology

Temperature control	Peltier
Temperature control block	6 blocks
Temperature range	4~99°C
Heating rate	> 2.5°C/s
Cooling rate	> 2.0°C/s
Temperature fluctuation	± 1°C
Temperature accuracy	≤ ±0.5°C
Hot-lid temperature range	30~110°C

Optical system

Excitation light source	High efficiency LEDs
Detector	Photodiode
Excitation wavelength	460nm~480nm, 525nm~545nm, 575nm~595nm,600nm~620nm
Emission wavelength	505nm~525nm,555nm~575nm, 600nm~620nm,660nm~680nm
Fluorescence repeatability	< 2%
Fluorescence linear	r > 0.99

Software

Applications	Qualitative/ Absolute Quantification Analysis
Scan mode	All-channel scanning
Data export	Excel
Report	Multiple printing templates/ customized template

Working Environment

Power supply	100-240 V AC,50-60 Hz
Operating system	Windows 7/10
Interface	USB
Working Temperature	10-30°C
Working Humidity	20-85%

Zybio Inc.

Address: Floor 1 to Floor 4, Building 30, No.6 of Taikang Road,
Block C of Jianqiao Industrial Park, Dadukou District, Chongqing, China 400082

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

Email: info@zybio.com Website: www.zybio.com