Helix Biosciences
Partner in your innovation

AQX100-96PMT/AQX100-96PD

AQX100-96PMT AmpliQX 96 well with 5 color module (6 color optional) with PMT
AQX100-96PD AmpliQX 96 well with 5 color module (6 Color optional) with Photodiode

Ultra-fast and stable, with enhanced precision

Automatic hot lid

Automatic hot lid: Electric automatic hot lid, automatic pressing. The hot lid can be controlled by touch button to automatically press the tube.

Intelligent PID temperature control

Intelligent PID temperature control: Industrial-grade customized semiconductor coolers + Intelligent PID temp. control system = Rapid temp. change + precision temp. Control.

High-sensitivity fluorescence detection

High-sensitivity fluorescence detection: High performance LED + high-sensitivity PMT + all fiber photoelectric module = extremely fast fluorescence scanning + top signal stability.

Windows-based analysis software

Windows-based analysis software: Extralarge Windows-based tablet with tailor-made automated analysis software. Supports external keyboard and mouse for efficient, user-friendly operation.



Performance and technical specifications

Core specifications

Sample quantity:	96 well × 0.2 ml; optional 96 well × 0.1ml.
Consumable type:	0.2 mL 96 well plate (Half-skirted, Non-skirted), 8-strips tubes, Single tube (the bottom should be transparent).
Reaction volume:	5–100µL.
Dynamic range:	1–10^10 copies.
Sample repeatability:	CV <1%.
Sample linear:	IrI≥0.999.
Fluorescence channel:	5.
Excitation light source:	High brightness and long life LED excitation light source.
Detector:	PMT/PhotoDiode.
Single channel scanning time:	1.5s.
Data export:	Excel, TXT.
Software language:	English.
Interface mode:	USB2.0, HDMI.

Temperature and operation

Temp. control method:	Thermoelectronic.
Ramp rate (max):	6°C/s.
Temp. accuracy:	±0.1°C.
Temp. uniformity:	≤±0.2°C (55°C).
Temp. range of hot lid:	RT.+5°C–110°C.
Temp. gradient range:	0.1–36°C.
Time increase/decrease:	0.1~9min59s, long PCR is available.
Temp. Increase/decrease:	0.1~9.9°C, touchdown PCR is available.
Voltage range:	100–240V.
Power(max):	1000W.
Dimension (D×W×H):	473×335×330mm.
Net weight (kg):	26.

Fluorescence channels

Dyes:	F1: FAM, SYBR Green I; SYTO 9, EvaGreen, LC Green. F2: VIC, HEX, TET, JOE, TAMRA, CY3, NED. F3: ROX/TexRed. F4: CY5. F5: CY5.5. F6: Optional.
Excitation wavelength:	Channel 1: 470nm; Channel 2: 523nm; Channel 3: 571nm; Channel 4: 628nm; Channel 5: 678nm.
Detection wavelength:	Channel 1: 525nm; Channel 2: 564nm; Channel 3: 612nm; Channel 4: 692nm; Channel 5: 718nm.

Software and system

Software function:	Support absolute quantitative, relative quantitative, melting curve, HRM, SNP and other functions.
Operation method:	10.1 inch colourful Windows system touch screen; Windows system computer can also connect to it.
Safety protection and alarm:	Over heat protection and alarm for block and hot lid.

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