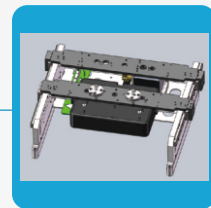# *Thermax RT*
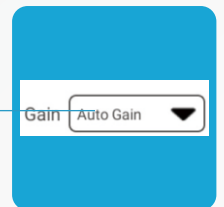
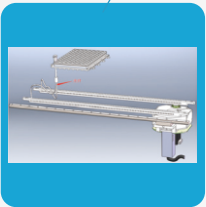# Real-time Fluorescent Quantitative PCR Analyzer

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

Electric automatic hot lid, automatic pressing

Gain | Auto Gain ▼

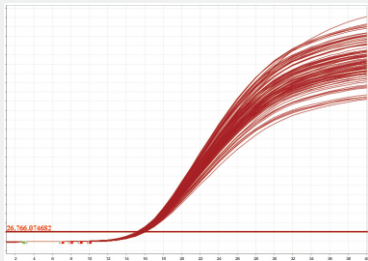Automatic gain, the system intelligently selects the best gain

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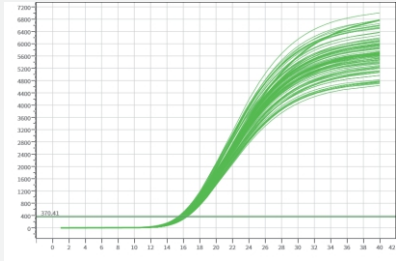

Large Android touch screen, tailored Android analysis software, two touches to start experiment fastest, can also be connected to the computer, keyboard and mouse, control at will
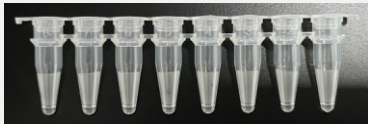
Apollo Technosystems

Prepare 5µL reaction system to amplify on Apollo Thermax RT and one famous brand qPCR instrument respectively,and compare the amplification effect and reagent evaporation.

Amplification curve of one famous brand qPCR instrument
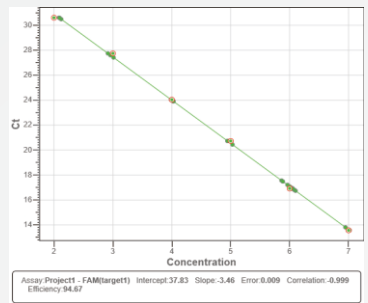

Amplification curve of Apollo qPCR instrument

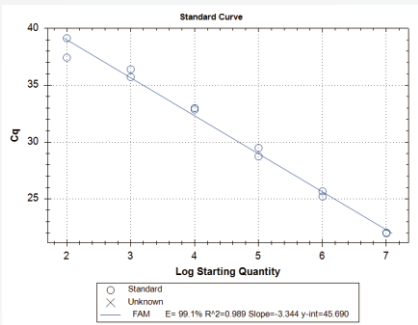5µL reaction system of one famous brand qPCR instrument

5µL reaction system of Apollo qPCR instrument

Prepare 6 kinds of gradient reaction system(concentraton: $10^1 \sim 10^6$) to amplify on Apollo Thermax RT and one famous brand qPCR instrument respectively, compare standard curve

Standard curve of Apollo qPCR instrument

Standard curve of one famous brand qPCR instrument

Model	Thermax RT	ROX calibration	No need
Sample quantity	96 well×0.2ml(Optional 96 well×0.1ml)	Temp. control method	Thermoelectronic
Consumable type	0.2 mL96 well plate(Half-skirted,Non-skirted), 8-strips tubes, Single tube (the bottom shoulded be transparent)	Ramp rate (max)	6℃/s
Reaction volume	5-100 µL	Temp. accuracy	±0.1℃
Dynamic range	1-10^{10} copies	Temp. uniformity	≤±0.2℃(55℃)
Sample repeatablitity	CV < 1%	Temp. range of hot lid	RT.+5℃-110℃
Sample linear	|r|≥0.999	Temp. gradient range	0.1-36℃
Automatic hot lid	The hot lid can be controlled by touch button to automatically press the tube	Time increase/decrease	0.1~9min59s, long PCR is available
Fluorescence channel	5	Temp. Increase/decrease	0.1~9.9℃, touchdown PCR is available
Fluorescence dyes	F1: FAM、SYBR Green I ; F2: VIC、HEX、TET、JOE、TAMRA、CY3、NED ; F3: ROX/TexRed; F4: CY5 ; F5: CY5.5 ; F6: Optional	Software function	Support absolute quantitative, relative quantitative, melting curve, HRM, SNP and other functions
		Operation method	10.1 inch colourful Android touch screen, simple and convenient and Windows system computer can also connect to it
		Safety protection and alarm	Over heat protection and alarm for block and hot lid
Excitation light source	High brightness and long life LED excitation light source	Data export	Excel, TXT
Detector	PMT	Software language	English
Excitation wavelength	Channel1:470nm Channel2 :523nm Channel3 :571nm Channel4 :628nm Channel5 :678nm	Voltage range	100-240V
		Interface mode	USB2.0/HDMI
Detection wavelength	Channel1:525nm Channel2 :564nm Channel3 :612nm Channel4 :692nm Channel5 :718nm	Power(max)	1000W
		Dimension(D×W×H)	473×335×330mm
Single channel scanning time	1.5s	Net weight (kg)	26