Your Personal Real-Time PCR Machine

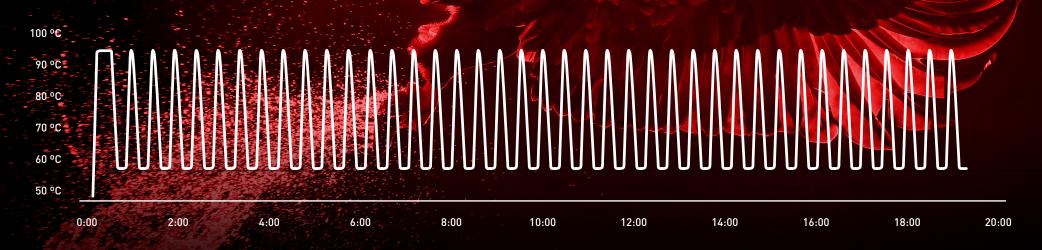


CHAI

Open qPCR Single + Dual Channel

INSANELY FAST

Perform 40 cycles of PCR in 20 minutes with 5 °C/s heating and cooling rates



BUILT LIKE A TINY

Compact, portable, and rugged;
Open qPCR is at home in the lab,
factory, or field.

Consistent results. Every time.



Thermal control so precise that results can be directly compared across runs, eliminating the need to repeatedly generate standard curves.

Sensitive enough to detect a single copy, robust enough to detect billions.



Quantify samples the first time with 9 orders of magnitude of dynamic range.

Simple design. Advanced experiments.



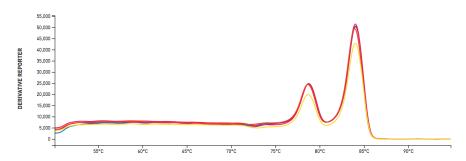
Design sophisticated experiments with Touchdown PCR, High Resolution Melt (HRM), Reverse Transcription PCR, and more.

PCR without a Ph.D.

LP Screening (1	12 beer spo	ilers)	
Well	Cq	Results	Amount
A1. Positive Control		Valid	-
A2. Negative Control	0	Valid	_
A3. Fermenter 1	① 19.00	Positive	High
A4. Fermenter 2	⊝ –	Negative	Not Detectable
A5. Fermenter 3	⊙ –	Inhibited	Invalid
A6. Keg 34627	÷ 28.03	Positive	Medium
A7. Keg 34756	⊝ –	Negative	Not Detectable
A8. Incoming Hops QC	31.40	Positive	Low

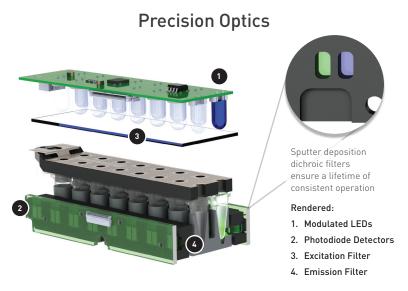
With test kits, step-by-step wizards, and automated analysis, anyone can get clear results.

Powerful Analysis



2 Channel Multiplexing * Color Compensation * Baseline Subtraction Adjustable C_q and T_m Calling

Generate Standard Curves *
Melt Curve Analysis
High Resolution Melt (HRM)



Solid-state optics read 16 samples in four seconds, allowing fast protocols & rapid acquisition of high-resolution melt curves. All without a single moving part.

^{* -} requires dual channel model

Samples:	16 wells			
Tubes/Strips:	100 μL low-prof	100 μL low-profile		
Sample volume:	10 – 50 μL	10 – 50 μL		
Sensitivity:	1 сору	1 сору		
Dynamic Range:	10°	10°		
Dimensions:	11 x 9.5 x 7.5 inc	11 x 9.5 x 7.5 inches (28 x 24 x 19 cm)		
Weight:	9 lbs (4 kg)	9 lbs (4 kg)		
Approvals:	FCC, CE			
Approvals:	FCC, CE			
	FCC, CE	Thermal		
Power	FCC, CE 100 – 240 V	Thermal Temperature Range:	4 – 100 °C	
Power	·		4 – 100 °C 0.00001 – 5 °C/s	
Power Voltage:	100 – 240 V	Temperature Range:		
Power Voltage: Frequency:	100 – 240 V 50 – 60 Hz	Temperature Range:	0.00001 - 5 °C/s	
Power Voltage: Frequency: Average Power:	100 – 240 V 50 – 60 Hz 75 W 350 W*	Temperature Range: Ramp Rate: Temperature Accuracy:	0.00001 - 5 °C/s ±0.2 C at 65 °C	

System

Connectivity
Networking:
Touchscreen:
Software:
Device Suppor
Integration:
Optical
Optical Excitation:
Excitation:
Excitation:
Excitation: Detection:
Excitation: Detection: Fluorophores:

etworking: Ethernet, 802.11n WiFi, USB Temperature: ouchscreen: 5.0 inch, capacitive Humidity: oftware: HTML5/JavaScript Web App Max Altitude: PC, Mac, iPad, Android Tablet evice Support: **REST API** tegration: ptical 454 - 487 nm xcitation: 513 - 555 nm (single); etection: 508 - 532, 573 - 597 nm (dual) luorophores: Chai Green, SYBR Green, FAM, HEX, VIC, JOE can time: 4.4 s esign: Solid-State LEDs & Photodiodes

Operating Environment

10 - 35 °C

20 - 80% non-condensing

2,000 m

Widely Compatible

Open qPCR has been validated with Chai's PCR Master Mixes and mixes from other leading manufacturers. The instrument is compatible with all dye and probe-based chemistries utilizing Chai Green, SYBR Green, FAM, HEX, VIC, or JOE fluorophores.

Featured Products

Instruments	Open qPCR, Single or Dual Channel
Service Plans	Two, Three, and Five-Year Plans available
Accessories	PCR Tube & Cap Strips, 100 µL
	Single/Dual Channel Calibrators
DNA/RNA	Chai One-Step DNA/RNA Extraction Buffer
Extraction Solutions	Chai Enzymatic DNA/RNA Extraction Buffer
PCR Master Mixes	Sahara Universal qPCR Master Mix
	Chai Green qPCR Master Mix
	Sahara Multiplex qPCR Master Mix
	Sahara One-Step RT-qPCR Master Mix
	Sahara One-Step RT-qPCR Master Mix with UNG
	Sahara Hot Start PCR Master Mix

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