AriaNx Real-Time PCR System

PRFC



Total Confidence qPCR

The AriaMx Real-Time PCR System is a fully integrated quantitative PCR amplification, detection, and data analysis system. Now with innovative modular optics which can be changed out in one easy step, the instrument provides the flexibility to scale up over time, as needed.

The latest design combines a state-of-theart thermal cycler, an advanced optical system with LED excitation source, and data analysis software. Continuing the tradition of intuitive software, the instrument now has a touchscreen so plates and analytics can be started with the touch of a finger.

With enhanced performance, the software provides results capturing RDML information required for publishing under the miQE guidelines. Simultaneously, the software is equipped to export images and raw data in multiple formats, allowing results to be viewed in common programs.

Specifications Table

Specifications lable				
Feature	Description			
Excitation Source	8 dye specific LEDs per optical module			
Detection Sources	8 photodiodes			
Optical Cartridges	SYBR/FAM			
	HEX			
	ROX			
	CY3			
	CY5 ATT0425			
	6 slots, swappable optical modules			
Dye Selection	Excitation and Emission			
Reaction Volume	10µL to 30µL			
Chemistries Supported	SYBR, Probe, HRM			
Thermal System	Six Peltiers made from two ceramic plates with semi-conductor elements, 96-well			
Thermal System	25.0 – 99.9°C			
Temperature Range	Heating: 6.0°C/sec			
	Cooling: 3.0°C/sec (Median), 2.5°C/sec (Average) Accuracy: ± 0.2°C or better at typical annealing, amplification, and denaturation temperatures			
Dynamia Banga	Accuracy. ± 0.2 C or better at typical annealing, amplification, and denaturation temperatures			
Dynamic Range				
Experiment Types	Quantitative PCR with dye, Quantitative PCR with probe, Allele Discrimination with HRM, Allele Discrimination with probe, Comparative Quantitation, User Defined			
Uniformity	± 0.4°C			
Data Acquisition Time	<3 seconds for all			
Cq Uniformity	Cq St Dev <0.20 at fast cycling (5s 95°C/10s 60°C)			
Electrical Power (input)	100 – 240VAC, 50/60Hz, 1100VA			
Operating Environment	$20-30^\circ$ C, $20-80\%$ non-condensing humidity, 7500 feet, max altitude			
Weight	50 lbs. (23 kg)			
Dimensions	19.7" W x 18.1" D x 16.5" H (50cm x 46cm x 42cm)			
Sample Containers	96-well plates, strip tubes; 0.2mL tubes			
Warranty	1-year warranty is standard with the instrument			
Onhoord Analytics	5-year warranty and service packages available			
Onboard Analytics	 Thermal, physical, interactive (sensors) tests Extended: 125 performance points tested in 30 minutes 			
	Start-up: 59 performance points tested in ~1 minute			
	Optional bypass of both features			
Services (upon request)	Installation and familiarization			
	Standard and Enhanced Preventative Maintenance Additional year warranty (+1 ingramate up to 5 years coverage)			
	 Additional year warranty (+1 increments, up to 5 years coverage) Return-to-Agilent Instrument Exchange Program 			
	Thermal block verification			
Operating System	Windows 7 and 10			
MS Office Compatibility	Microsoft 2010 and 2013 compatible			
Run Modes	Stand alone			
	• PC connected			
	 LAN connected to PC (more than 20 instruments can be connected and monitored remotely) LISP connected actornal devices 			
	USB connected, external devices			



Specifications Table (con't)

Feature	Description			
Software	Free software including LIMS connectivity			
Optical Module Calibration and Cleaning	 All channels can be tested and calibrated All attributes of optical channels are calibrated at the factory – LED light output, light path, mirror, and photodiode Optical modules can be cleaned in lab without Agilent technician or sending back to factory 			
Selected Applications	 Quantitative and qualitative gene expression analysis miRNA analysis Genetic mapping Genetic fingerprinting 	 NGS library quantification 2-6 channel multiplex ability HRM analysis (including genotyping, mutational analysis, and class IV SNP detection) Pathogen quantification 		

Ordering Information

Category		Part #	Description	Quantity
Base Instrument	ation	G8830A	AriaMx Real-Time PCR System	1
Optical Cartridges		Option 101 (G8830-67001*)	SYBR/FAM Optical Cartridge	1/pack
(*Use part numbers to upgrade post instrument purchase)		Option 102 (G8830-67002*)	ROX Optical Cartridge	1/pack
		Option 103 (G8830-67003*)	HEX Optical Cartridge	1/pack
		Option 104 (G8830-67004*)	CY3 Optical Cartridge	1/pack
		Option 105 (G8830-67005*)	CY5 Optical Cartridge	1/pack
		Option 106 (G8830-67006*)	ATT0425 Optical Cartridge	1/pack
Software Upgrade and PC (with instrument)		Option 300	Electronic Tracking of HRM software	1
		Option 400	HRM analysis software upgrade	1
		Option 650	AriaMx PC Kit	1
AriaMx Software Upgrade (post instrument purchase)		G5380AA	Electronic Tracking of the HRM software	1
		G5381AA	HRM analysis software upgrade only	1
Plastics		401490	AriaMx 96-well plates, skirted and low profile	1 x 25/pack
		401491	AriaMx 96-well plates, skirted and rigid	1 x 25/pack
		401494	AriaMx 96-well plates, non skirted low profile	1 x 25/pack
		401492	AriaMx adhesive plate seals	1 x 25 plates
		401493	AriaMx low profile strip tubes for PCR and qPCR applications, without caps	8/strip x 120/box
		401425	AriaMx Strip caps for PCR and qPCR applications	8/strip x 120/box
		401427	AriaMx Optical Strip Caps	Box of 60
SY MULTIPI	PROBE	600880	Brilliant III Ultra-Fast qPCR Master Mix	400 rxns
	SYBR	600882	Brilliant III SYBR Ultra-Fast qPCR Master Mix	400 rxns
		5190-7708	AriaMx SYBR Qualification Plate	1 plate/pack
	MULTIPLEX	600553	Brilliant Multiplex qPCR Master Mix	200 rxns
	HRM	5190-7827	Brilliant HRM Ultra-Fast Loci Master Mix	200 rxns
		5190-7702	AriaMx HRM Calibration Kit	1 x 96-well plate
Starter Packs (Includes cDNA synthesis kits* and recommended plastics)		600906*	AriaMx SYBR Green Starter Pack	1
		600907*	AriaMx qRT-PCR Starter Pack	1
		5190-9370	Brilliant HRM Ultra fast Starter Pack	1

Useful Tools and Web Links

qPCR Decision Tree

Determine which qPCR reagents or enzymes best serve your needs by visiting www.agilent.com/genomics/ qpcrdecisiontree

Software Updates

Ensure your software is the most current version by visiting www.agilent.com/genomics/ariamxsoftware

For a virtual demo, visit www.agilent.com/genomics/ariamxvideos For a live demo, call your Agilent sales representative.



FOR MORE INFORMATION

qpcr@agilent.com | www.agilent.com/genomics/ariamx

For Americas, call **800.227.9770** or for other regions, consult www.agilent.com/genomics/contactus

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