

AriaMx

Real-Time PCR System



SPEED



AGILITY



PRECISION



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-the-art 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

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	10 μ L to 30 μ L
Chemistries Supported	SYBR, Probe, HRM
Thermal System	Six Peltiers made from two ceramic plates with semi-conductor elements, 96-well
Thermal System Temperature Range	25.0 – 99.9°C Heating: 6.0°C/sec Cooling: 3.0°C/sec (Median), 2.5°C/sec (Average) Accuracy: \pm 0.2°C or better at typical annealing, amplification, and denaturation temperatures
Dynamic Range	9
Experiment Types	Quantitative PCR with dye, Quantitative PCR with probe, Allele Discrimination with HRM, Allele Discrimination with probe, Comparative Quantitation, User Defined
Uniformity	\pm 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°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	<ul style="list-style-type: none"> • 1-year warranty is standard with the instrument • 5-year warranty and service packages available
Onboard Analytics	<ul style="list-style-type: none"> • 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)	<ul style="list-style-type: none"> • Installation and familiarization • Standard and Enhanced Preventative Maintenance • Additional year warranty (+1 increments, up to 5 years coverage) • Return-to-Agilent Instrument Exchange Program • Thermal block verification
Operating System	<ul style="list-style-type: none"> • Windows 7 and 10
MS Office Compatibility	<ul style="list-style-type: none"> • Microsoft 2010 and 2013 compatible
Run Modes	<ul style="list-style-type: none"> • Stand alone • PC connected • LAN connected to PC (more than 20 instruments can be connected and monitored remotely) • USB connected, external devices

For more firmware and software features, see next page.



Agilent Technologies

Specifications Table (con't)

Feature	Description
Software	Free software including LIMS connectivity feature
Optical Module Calibration and Cleaning	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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
Instrumentation	G8830A	AriaMx Real-Time PCR System (Base Instrument)	1
	Option 101	SYBR/FAM Optical Cartridge	1/pack
	Option 102	ROX Optical Cartridge	1/pack
	Option 103	HEX Optical Cartridge	1/pack
	Option 104	CY3 Optical Cartridge	1/pack
	Option 105	CY5 Optical Cartridge	1/pack
	Option 106	ATT0425 Optical Cartridge	1/pack
	Option 300	Electronic Tracking of AriaMx 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 AriaMx software (upgrade)	1
	G5381AA	HRM analysis software upgrade only	1
Optical Cartridges (sold without instrument)	G8830-67001	SYBR/FAM Optical Cartridge	1/pack
	G8830-67002	ROX Optical Cartridge	1/pack
	G8830-67003	HEX Optical Cartridge	1/pack
	G8830-67004	CY3 Optical Cartridge	1/pack
	G8830-67005	CY5 Optical Cartridge	1/pack
	G8830-67006	ATT0425 Optical Cartridge	1/pack
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 50 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
Reagents	PROBE 600880	Brilliant III Ultra-Fast qPCR Master Mix	400 rxns
	SYBR 600882	Brilliant III SYBR Ultra-Fast qPCR Master Mix	10 pack (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

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/en/video/ariamx-quick-product-demo

For a live demo, call your Agilent sales representative.

FOR MORE INFORMATION

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

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