

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 ATTO425 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 Temperature Range	25.0 – 99.9°C 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
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	± 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.



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Specifications Table (con't)

Feature	Description
Software	Free software including LIMS connectivity
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
Base Instrumentation	G8830A	AriaMx Real-Time PCR System	1
Optical Cartridges (*Use part numbers to upgrade post instrument purchase)	Option 101 (G8830-67001*)	SYBR/FAM Optical Cartridge	1/pack
	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*)	ATTO425 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
Reagents	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**

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

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