AriaMx Real-Time PCR System

Have Total Confidence in Your qPCR

The Agilent AriaMx Real-Time PCR system is a fully integrated quantitative PCR amplification, detection, and data analysis solution. With innovative optical modules that can be changed in one simple step, your lab can have the flexibility necessary to scale up over time. The design of the AriaMx system combines a state-of-the-art thermal cycler, an advanced optical system with LED excitation sources, intuitive data analysis software, and touchscreen operation.

Providing results that capture real-time PCR data markup language (RDML), the software delivers the data required for publishing under the minimum information for publication of quantitative real-time PCR experiments (MIQE) guidelines. The software is equipped to export images and raw data simultaneously in multiple formats, allowing results to be viewed in common programs. With the AriaMx system, you can have complete confidence in your qPCR data from plate startup to experimental analysis.

Specifications

Feature	Description
Excitation Source	Eight dye-specific LEDs per optical module
Detection Sources	Eight photodiodes
Optical Modules	SYBR/FAM HEX ROX CY3 CY5 ATTO425 Six slots, exchangeable optical modules
Dye Selection	Excitation and emission
Reaction Volume	10 to 30 µL
Chemistries Supported	SYBR, TaqMan chemistries
Thermal System	Six Peltier elements made from two ceramic plates with semi-conductor elements, 96-well
Thermal System Temperature Range	25.0 to 99.9 °C Heating: 6.0 °C/sec Cooling: 3.0 °C/sec (median), 2.5 °C/sec (average) Accuracy: ± 2 °C or better at typical annealing, amplification, and denaturation temperatures
Dynamic Range	Nine
Experiment Types	Quantitative PCR with dye Quantitative PCR with probe Allele discrimination with probe Comparative quantitation User defined
Uniformity	± 0.4 °C
Data Acquisition Time	< 3 seconds for all channels
Electrical Power (input)	100 to 240 VAC, 50/60 Hz, 1100 VA
Operating Environment	20 to 30 °C 20 to 80% non-condensing humidity 7,500 ft max altitude
Weight	50 lbs. (23 kg)
Dimensions	19.7" W x 18.1" D x 16.5" H (50 cm x 46 cm x 42 cm)
Sample Containers	96-well plates, strip tubes, 0.2 mL tubes
Warranty	– One-year warranty is standard with the instrument – Five-year warranty and service packages available
Onboard Analytics	– Thermal, physical, and interactive sensor tests – Extended: 125 performance points tested in 30 minutes – Start-up: 59 performance points tested in approximately one minute – Optional bypass for both features
Services (upon request)	– Installation and initialization – Standard preventative maintenance – Extended warranty and service contracts available
Operating System	– Windows 10 Pro (64-bit) with preferred language set to English (United States)
MS Office Compatibility	– Microsoft 2010 and 2013 compatible
Run Modes	– Standalone – PC-connected – LAN connected to PC (more than 20 instruments can be connected and monitored remotely) – USB-connected, external devices
Software	– Free software including LIMS-connectivity feature – Electronic Tracking software upgrade – High Resolution Melt (HRM) Analysis software upgrade
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, and photodiode – Optical modules can be cleaned in lab, without Agilent technician or sending back to the factory
Selected Applications	– Quantitative and qualitative gene expression analysis – Genetic mapping – Genetic fingerprinting – NGS library quantification – Two to six channel multiplexing available – Pathogen quantification

Ordering Information

Category	Part Number	Description	Quantity
Base Instrumentation	G8830A	AriaMx Real-Time PCR system (base instrument)	1
Optical Modules (Select 1-6 filters to add to base instrument. Additional filters can be added to base instrument at any time.)	Option 101	SYBR/FAM Optical module	1/pack
	Option 102	ROX Optical module	1/pack
	Option 103	HEX Optical module	1/pack
	Option 104	CY3 Optical module	1/pack
	Option 105	CY5 Optical module	1/pack
	Option 106	ATTO425 Optical module	1/pack
	Option 300	Electronic Tracking software upgrade	1 authorization code (good for one license)
	Option 400	HRM analysis software upgrade	1 authorization code (good for ten licenses)
AriaMx Software Upgrades (post instrument purchase)	G5380AA	Electronic Tracking software upgrade	1 authorization code (good for one license)
	G5381AA	HRM analysis software upgrade	1 authorization code (good for ten licenses)
Optical Modules (sold without instrument)	G8830-67001	SYBR/FAM Optical module	1/pack
	G8830-67002	ROX Optical module	1/pack
	G8830-67003	HEX Optical module	1/pack
	G8830-67004	CY3 Optical module	1/pack
	G8830-67005	CY5 Optical module	1/pack
	G8830-67006	ATT0425 Optical module	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/pack
	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 SYBR	600880	Brilliant III Ultra-Fast qPCR Master Mix	400 rxns
	600882	Brilliant III SYBR Ultra-Fast qPCR Master Mix	10 pack (400 rxns)
	5190-7708	AriaMx SYBR Qualification Plate	1 plate/pack
MULTIPLEX HRM	600553	Brilliant Multiplex qPCR Master Mix	200 rxns
	5190-7827	Brilliant HRM Ultra-Fast Loci Master Mix	200 rxns
	5190-7702	AriaMx HRM Calibration kit	1 x 96-well plates

Useful Tools and Web Links

AriaMx Real-Time PCR system

To learn more about the Agilent AriaMx qPCR system, visit our product page:

www.agilent.com/en/product/real-time-pcr-(qpcr)

qPCR decision tree

Determine which qPCR reagents or enzymes best serve your needs by visiting our qPCR decision tree:

www.agilent.com/en/product/real-time-pcr-%28qpcr%29/bioreagent-decision-trees

Software updates

Ensure your software is the most current version by visiting our software page:

www.agilent.com/en/product/real-time-pcr-(qpcr)/real-time-pcr-(qpcr)-instruments/ariamx-software-download

Demonstration video

For a virtual demo, watch this short video:

www.agilent.com/en/video/ariamx-quick-product-demo

For more information, email:
qpcr@agilent.com

For Americas, call 800-227-9770 or for other regions, consult
www.agilent.com/en/contact-us/page