



# AriaDx

## Real-Time PCR System

*For In Vitro Diagnostic Use*

### Total Confidence qPCR

The AriaDx 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.

[For more firmware and software features, see next page.](#)

### 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	10 µl to 30 µl
Chemistries Supported	SYBR and Probes
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 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"> <li>• 1 year warranty is standard with the instrument</li> <li>• 5 year warranty and service packages available</li> </ul>
Onboard Analytics	<ul style="list-style-type: none"> <li>• Thermal, physical, interactive (sensors) tests</li> <li>• Extended: 125 performance points tested in 30 minutes</li> <li>• Start-up: 59 performance points tested in ~1 minute</li> <li>• Optional bypass of both features</li> </ul>
Services (upon request)	<ul style="list-style-type: none"> <li>• Installation &amp; Familiarization</li> <li>• Diagnostic Preventative Maintenance</li> <li>• Additional service contract to extend warranty coverage up to 5 years</li> <li>• Return-to-Agilent Instrument Exchange Program</li> <li>• Thermal block verification</li> </ul>

## Specifications Table continued

Feature	Description
Operating System	<ul style="list-style-type: none"> <li>Windows 7 and 10</li> </ul>
Run Modes	<ul style="list-style-type: none"> <li>Stand alone</li> <li>PC connected</li> <li>LAN connected to PC (more than 20 instruments can be connected and monitored remotely)</li> <li>USB connected, external devices</li> </ul>
Software	Free software including LIMS connectivity feature
Optical Module Calibration and Cleaning	<ul style="list-style-type: none"> <li>All channels can be tested and calibrated</li> <li>All attributes of optical channels are calibrated at the factory – LED light output, light path, mirror, and photodiode</li> <li>Optical modules can be cleaned in lab without Agilent technician or sending back to factory</li> </ul>
Selected Applications	<ul style="list-style-type: none"> <li>Quantitative and qualitative gene expression analysis</li> <li>miRNA analysis</li> <li>Genetic mapping</li> <li>Genetic fingerprinting</li> <li>NGS library quantification</li> <li>2-6 channel multiplex ability</li> <li>Pathogen quantification</li> </ul>

## Ordering Information

Category	Part #	Description	Quantity	
Instrumentation	K8930AA	AriaDx Real-Time PCR 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	ATTO425 Optical Cartridge	1/pack	
	Option 300	Electronic Tracking	1	
	Option 650	PC Kit	1	
AriaDx Software Upgrade (post instrument purchase)	K5822AA	Electronic Tracking of AriaDx Software (Upgrade)	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	ATTO425 Optical Cartridge	1/pack	
Plastics	401490	96-well plates, skirted and low profile	1 x 25/pack	
	401491	96-well plates, skirted and rigid	1 x 25/pack	
	401494	96-well plates, non skirted low profile	1 x 25/pack	
	401492	Adhesive plate seals	1 x 25 plates	
	401493	Low profile strip tubes for PCR and qPCR applications, without caps	8/strip x 120/box	
	401425	Strip caps for PCR and qPCR applications	8/strip x 120/box	
	401427	Optical Strip Caps	Box of 60	
Reagents	SYBR	5190-7708	SYBR Qualification Plate	1 plate/pack

[www.agilent.com/genomics/ariadxsoftware](http://www.agilent.com/genomics/ariadxsoftware)

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