



Factory Calibrated

AriaMx is ready to go—no need to set quantification curves or calibrate the instrument.

Ultra-Fast Chemistry

AriaMx is optimized for Agilent's Brilliant III reagents, but also runs all fast chemistries.

Blazing Scan Times

Scan all channels in less than three seconds—the fastest in the industry.



Modular Design

Modular cartridges make in-lab upgrades possible with the click of a button.

Intuitive Interface

AriaMx's touchscreen makes system integration easy for all users.

Broad Applications

AriaMx supports more than one assay and chemistry. Applications include: Gene Expression, Comparative Quantification (Single-Plex and Multiplex), Quantitative PCR (Single-Plex and Multiplex), Genotyping, Allele Discrimination, NGS Library Quantification, and more.



Thermal Control

Easily maintains within $\pm 0.2^\circ\text{C}$ or less of target temperature.

Impressive Sensitivity

Two-fold discrimination in a single cycle with 95% confidence over a wide range of copies.

Robust Validation

Tested on 100,000 samples.

BRILLIANT HRM ULTRA-FAST LOCI MASTER MIX

Fast chemistry to confidently identify hard-to-detect genotypes.

- Robust validation and tight manufacturing quality controls
- SYBR assay results in 42 minutes using Brilliant III reagents
- Open reagent platform: use your assays and reagents
- AffinityScript for the toughest samples and alleles

HRM is a quick method to monitor and record the melt profile of amplicons in a sample, post-PCR. HRM's high sensitivity can detect even the smallest of melting temperature changes like those caused by single[1]base changes, nucleotide repeats and small deletions in DNA. Some of applications include: genotype confirmation, mutation identification and screening, clone confirmation and methylation analysis.

High-Performance Agilent HRM Options:



Brilliant HRM Ultra-Fast Loci Master Mix
Faster HRM on any platform with total confidence



Complete AriaMx HRM Solution
The fastest way to confidently identify hard-to-detect genotypes



Ultra-Fast SYBR Master Mixes

A proprietary, quick acting hot start *Tag* mutant enables ultra-fast reactions which amplification efficiency, R2, dynamic range and detection sensitivity.

MODULAR OPTICAL CARTRIDGES

The first real-time PCR system with optics contained in modular cartridges, the AriaMx allows for less cross talk between channels resulting in improved data resolution.



Ready, Go!

AriaMx comes calibrated straight from the factory. Calibration is only necessary if future modules are added. Now you can be confident you are measuring biological variation over the instrument's life.



Key Features

- Expandable and upgradeable in the lab
- No reference channel needed
- "Set it and forget it" calibration
- Future-proof
- Accommodate as many or as few optic channels as you require

With optical cartridges that have no need for a reference channel, the tight calibration of the cartridges and steady emission wavelengths from the instrumentation provide consistent data with every run.



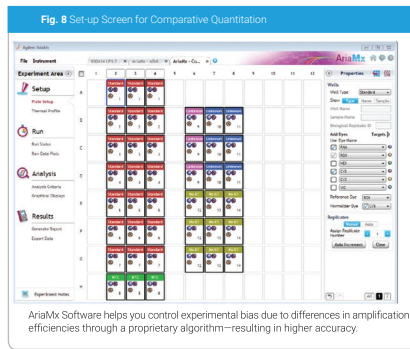
Advanced, yet easy-to-use **SOFTWARE** with proprietary algorithms accompany AriaMx's precision chemistry and thermocycling capability.



Easy Touchscreen Set-Up

Simple-to-use, feature-rich touchscreen allows you to set up runs with the touch of a finger

21 CFR Part 11 compatible features are available by licensing ET software.

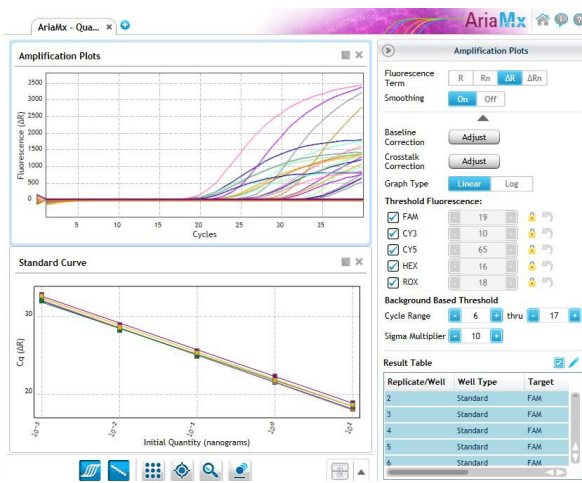


New Software Features

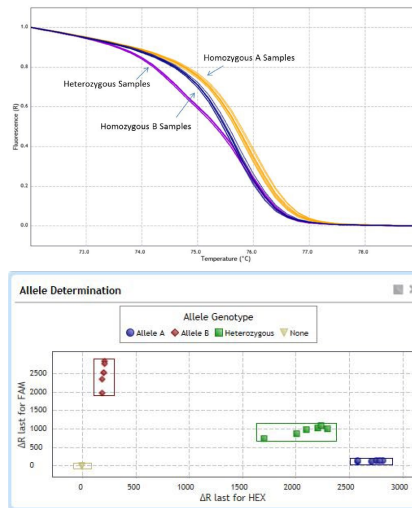
- Touchscreen Set-Up
- Onboard Diagnostics
- Remote Monitoring
- Base software included with instrument purchase

Plate Maps at Your Fingertips

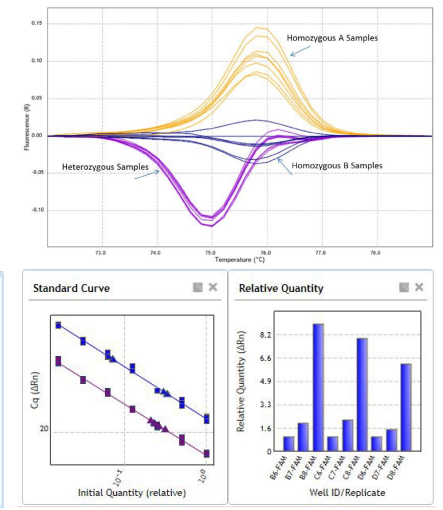
Program at the plate and well level. Simply hover over a well, and its details will open in a new window.



Quantitative PCR (Probe)

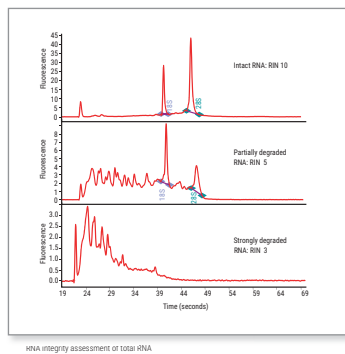


Allele Discrimination (Fluorescence Probe)

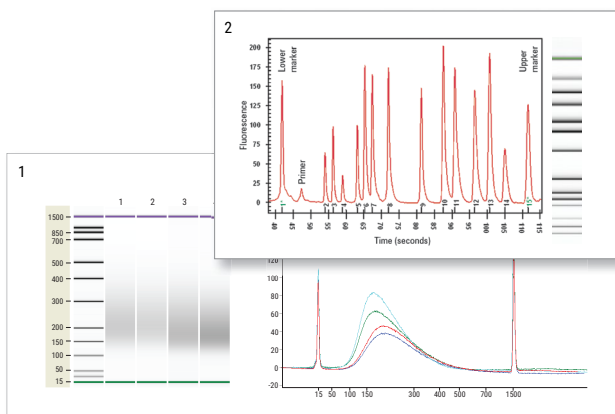


Comparative Quantitation Multiplex PCR

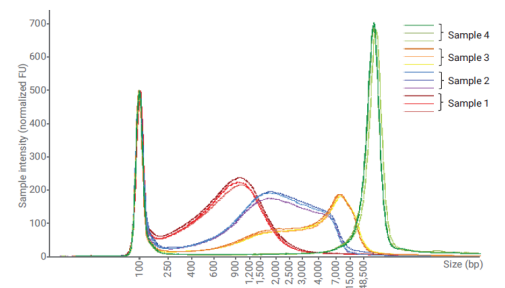
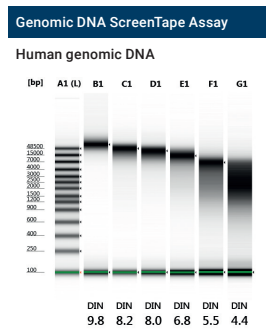
Additional Information
Sample Quality Control



4150 / 4200 TapeStation System



1. Size distribution analysis of fragmented DNA 2. Multiplex PCR of 13 amplicons



Specifications

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, 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; 0.2 mL tubes
Warranty	• 1-year warranty is standard with the instrument • 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 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) • USB connected, external devices
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 Number	Description	Quantity		
Base Instrumentation	G8830A	AriaMx Real-Time PCR System	1		
Optical Cartridges (*Select 1-6 filters to add to base instrument. Additional filters can be added to base instrument at any time)	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		
Software Upgrade and PC	G5380AA	Electronic Tracking of HRM software	1		
	G5381AA	HRM analysis software upgrade	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 50 seals		
	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
			600881	Brilliant III Ultra-Fast QPCR Master Mix, 10 pack	10 x 400 rxns
		SYBR	600882	Brilliant III Ultra-Fast SYBR Green QPCR Master Mix	400 rxns
600883			Brilliant III Ultra-Fast SYBR Green QPCR Master Mix, 10 pack	10 x 400 rxns	
600884			Brilliant III Ultra-Fast QRT-PCR Master Mix	400 rxns	
600885			Brilliant III Ultra-Fast QRT-PCR Master Mix, 10 pack	10 x 400 rxns	
600886			Brilliant III Ultra-Fast SYBR Green QRT-PCR Master Mix	400 rxns	
600887			Brilliant III Ultra-Fast SYBR Green QRT-PCR Master Mix, 10 pack	10 x 400 rxns	
302106			Mycosensor QPCR Assay Kit	100 rxns	
302107			Mycosensor QPCR Assay Kit	50 rxns	
5500-0094			Porcine Detection Kit	400 rxns	
600584			miRNA QRT PCR Master Mix Kit	200 rxns	
600559			AffinityScript QPCR cDNA Synthesis Kit	50 rxns	
MULTIPLEX HRM			5190-7708	AriaMx SYBR Qualification Plate	1 plate/pack
			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 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
Extraction Kits	200600	Genomic DNA Extraction Kit	35 preps		
	400771	StrataPrep PCR Purification Kit	50 rxns		
	400773	StrataPrep PCR Purification Kit	250 rxns		
	400766	Strata Prep DNA Gel Extraction	50 rxns		
	400768	Strata Prep DNA Gel Extraction	250 rxns		
	400761	StrataPrep Plasmid Miniprep Kit	50 rxns		
	400763	StrataPrep Plasmid Miniprep Kit	250 rxns		
	5185-6000	Total RNA Isolation Mini Kit	50 preps		
	400800	Absolutely RNA MiniPrep Kit	50 preps		
	400814	Absolutely RNA miRNA Kit	50 preps		
	400753	Absolutely Nanoprep Kit	50 preps		
	400809	Absolutely RNA FFPE Kit	50 preps		



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