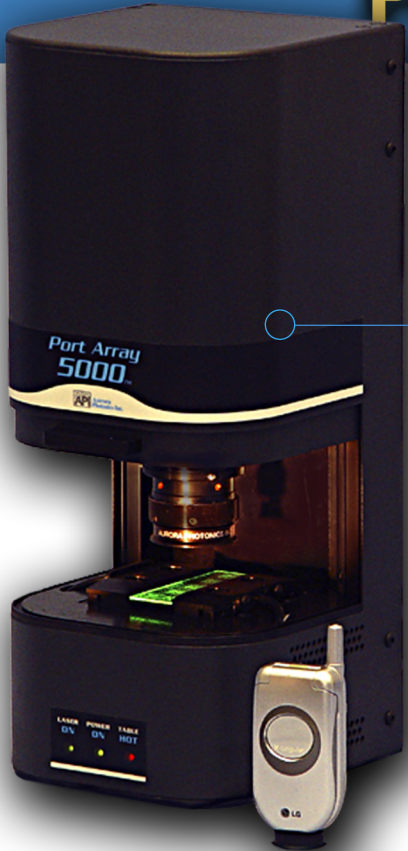


PortArray™ 5000

Portable Microarray Reader



PortArray™ 5000 Microarray Reader is a user-friendly image capture detection system which can read most BioChips with a 25mm x 75mm format. When equipped with the optional thermal slide support, the PortArray™ 5000 allows flexibility to perform thermal disassociation studies and provide protocol from melting curve data. Genomic and proteomic analysis formulations can easily be added to the Tru-Image™ open source software to create an “all-in-one” imaging analysis system.

The PortArray™ 5000 provides exceptional value in a truly high performance yet portable unit.

Advantages:

Temperature Controlled Slide Support

Programmable temperature from 5°C - 75°C in 0.1°C increments
Programmable time intervals starting at 1 minute

Rapid Acquisition Times

Full area image capture simultaneously collects all data in a single acquire. Programmable starting at 0.1 Seconds

Reads through Cover Plates

Images Wet or Dry Arrays

Low Power Diode Lasers (Class IIIb)

No Photobleaching – Long Life

No Moving Parts

Provides years of uninterrupted service

Small Footprint

More Lab Space

Key Features:

Tru-Image™ Software

Full featured processing software. Image capture, data acquisition, zoom, temperature control profiles, open source code for easy customization.

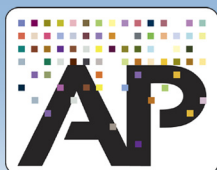
Patented Illumination System

Uniform light distribution minimizes background noise and increases sensitivity

Portability

Move from “lab-to-lab” or “lab-to-field”. No moving parts to go out of calibration or alignment.

Lab-on-Chip
Compatible



**Aurora
Photonics**

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PortArray™ 5000

Portable Microarray Reader



Specifications:

- Acquisition times: Programmable from 0.1 seconds
- Thermal Range: 5°C-75°C infinitely variable and programmable
- Detection Limit: Dependant on BioChip Platform and Assay Protocol (1)
- Dynamic Range: 3-4 orders of Magnitude
- Resolution: 1µm (utilizing digital zoom)
- Chip Format: 25mm x 75mm
- Excitation Wavelengths: 532nm, 635nm or Both
- Lasers: Class IIIb
- Electrical Requirements: 12VDC 4.9 Amps
100-240VAC (47 - 63hz) External Power Supply Included
- Weight: 6.4kg (14 lbs.)
- Dimensions: 150 x 150 x 362mm (L x W x H)
6" x 6" x 14.5" (L x W x H)

Reader Utility Used	Concentration		Fluorescent, Digital Luminescent Units (DLU)				Reader Utility Used	Concentration		Fluorescent, Digital Luminescent Units (DLU)			
	10 ⁻¹ amol/µm ²	fluor/µm ²	Cy3	Cy5	Cy3+Cy5	Background		10 ⁻¹ amol/µm ²	fluor/µm ²	Cy3	Cy5	Cy3+Cy5	Background
Data "A" 590nm filter 10 second acquisition time Green laser	10.0000	602200	867160	45610	743531	47053	Data "B" 700nm filter 10 second acquisition time Red Laser	10.0000	602200	16263	345756	369486	18493
	3.3333	200733	542363	37993	511838	47053		3.3333	200733	15188	134223	178573	18493
	1.1111	66911	307007	34320	327769	47053		1.1111	66911	14634	44814	60299	18493
	0.3704	22304	123712	33951	128215	47053		0.3704	22304	14740	27656	26360	18493
	0.1235	7435	96380	62718	83951	47053		0.1235	7435	19122	24693	21893	18493
	0.0412	2478	54524	46123	51266	47053		0.0412	2478	16395	18796	17240	18493
	0.0137	826	38648	36734	36521	47053		0.0137	826	15204	15917	15006	18493
	0.0046	275	35149	34202	32311	47053		0.0046	275	15016	15314	14632	18493

(1) Example of measured Detection Limit that includes specific biochip platform, assay protocol and Reader.

PortArray™ Family

The PortArray™ is configured to provide an affordable high performance package to match specific needs. Choose the system that is right for the application or call us for custom OEM configurations.

All PortArray™ systems include: Laptop with Tru-Image™ software, carrying/shipping case, interconnect cables, power supply, calibration standard and choice of one emission filter.

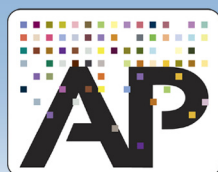
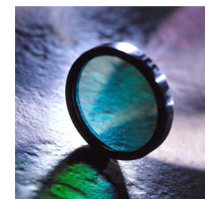
- PA5000 Portable Microarray Reader with 532nm Laser
- PA5100 Portable Microarray Reader with 635nm Laser
- PA5200 Portable Microarray Reader with 532nm and 635nm Lasers
- PA5300 Portable Microarray Reader with Thermal Control and Dual Lasers

Accessories

Standard Emission Filters (nm):

470, 485, 530, 580, 605, 630, 675

Custom wavelengths upon request



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