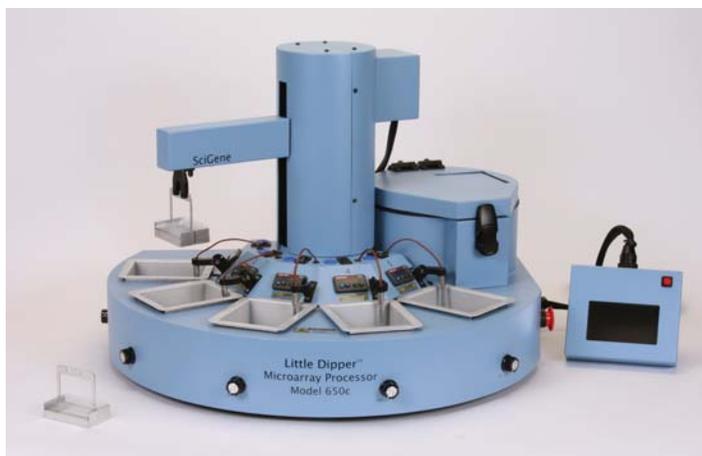


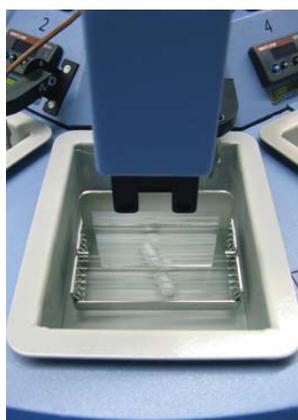
# Little Dipper™ Processor for Agilent Arrays

Automates Processing of Agilent DNA Microarrays



## Improves Assay Reproducibility

The Little Dipper Processor for Agilent Arrays is a programmable robotic system that replaces the multistep manual processes normally used for post-hybridization processing of CGH, gene expression, ChIP-chip and miRNA arrays. Batches of up to 12 slides are moved at programmed times between temperature controlled baths containing Agilent wash buffers and solutions. While submerged in each bath, arrays are reproducibly washed using a combination of up/down agitation and stir bar vortex action. After the washing steps, arrays are air dried or coated with a stabilization solution using a slow withdrawal of the rack from the final bath as specified by Agilent.



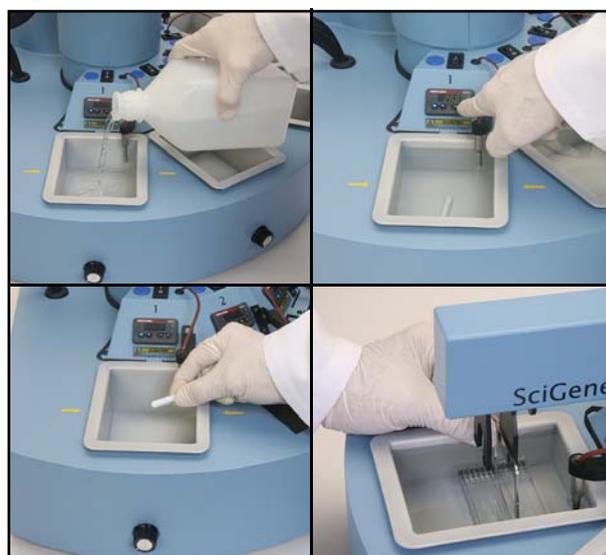
*Arrays are washed using up/down agitation and stir bar mixing.*



*Arrays are slowly withdrawn from the final bath for even drying.*

## Load and Go Operation

After filling the baths and setting the buffer temperatures, arrays are removed from the Agilent hybridization chambers and placed in a simple to load, 12 position rack. After inserting the rack onto the Little Dipper robotic arm, the instrument performs all of the processing steps following programmed times and agitation rates. The simplicity of the design and operation of the system makes training a snap. For new users, a handy operator reference card is included that guides them through system operation.



*Fill baths, set temperature, adjust stir bars and load slide rack.*

# Little Dipper™ Processor for Agilent Arrays

## Ready to Use with Pre-Loaded Protocols

The Little Dipper for Agilent Arrays comes fully outfitted, ready to use for processing Agilent CGH, GeneExpression, ChIP-chip and miRNA arrays. The system arrives with all necessary components and with Agilent recommended protocols installed. Just follow the reference card, fill the baths with the Agilent buffers, press start on the control screen and load the rack of arrays. The instrument does the rest.

## A Single Processor for All Microarray Types

The Little Dipper Processor can be easily configured and programmed to perform all commercial and self-spotted array processing protocols as well as FISH procedures. Use of a single piece of equipment for processing all microarray types simplifies operator training, avoids duplicating equipment costs and saves bench space.

**Table 1. Sample Program for Agilent Arrays**

CGH Arrays Processed without Ozone Control (Agilent Protocol B) Program Name: CGH-B					
Step	Bath	Buffer	Temp (°C)	Agitation (cpm)	Time (sec)
1	1	aCGH Buffer 1	RT	250	300
2	2	aCGH Buffer 2	37°	250	60
3	3	acetonitrile	RT	250	60
4	4	Stabiliz+drying	RT	250	30



**Agilent Technologies**



*The Little Dipper automates processing of arrays from commercial suppliers such as illumina, Agilent, NimbleGen or from a core facility.*

## Specifications

### Electrical

Cat.# 1080-40-1 115V AC; 50/60 Hz; 1700W  
Cat.# 1080-40-2 220V AC; 50/60 Hz; 1700W

### Dimensions (HxWxD)

20 x 28 x 22 inches  
(51 x 71 x 56 cm)

### Weight

Instrument Net 47 lbs (21 kg)  
Shipping Gross 85 lbs (39 kg) in 2 cartons

### Performance and Controls

Temperature Range Ambient +5°C to 90°C  
Temperature Regulation ± 0.5°C from set point  
Bath Volumes 5x 670 ml  
Centrifuge RPM / force 900 RPM / 50 g

## Ordering Information

Catalog No.	Description	UoM
1080-40-1	Little Dipper Processor for Agilent, 115V.	EA
1080-40-2	Little Dipper Processor for Agilent, 220V.	EA
Ships complete with required baths, processing racks, preloaded optimized programs and digital thermometer for bath temperature calibration. Includes a 12-month warranty.		
1080-31-0	Little Dipper Upgrade Kit for illumina BeadChips	EA
<b>Extended Warranty Options</b>		
1080-01-1	12 Month Extended Warranty.	EA
1080-01-2	24 Month Extended Warranty.	EA
1080-01-3	36 Month Extended Warranty.	EA

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