

Sole Source Specifications: Scanner Features



G2565CA - Agilent Microarray Scanner Bundle

Bundle includes: microarray scanner, 48 position carousel, 50 slide holders, a crossover USB interface cable, Feature Extraction software (2 licenses), PC data-system with LCD monitor, system install, and familiarization.

Scanner Specifications

Product*	
DNA Microarray Scanner with Surescan High-Resolution Technology, Model G2565CA	
Special Features:	
Pixel Resolution*	2, 3, 5 or 10 microns
Dynamic Range*	10 ⁴ (16-bit data format) 10 ⁵ (20-bit data format)
Dynamic AutoFocus*	Continually adjusts scanner's focus, keeping features in focus at all times
Scan time*	2-color simultaneous data acquisition in about 15 minutes per for 3 micron scans and about 20 minutes for 2 micron scans (scan region of 61mm x 21.6mm)
Autoloader*	48-slide carousel allows for hands-off operation
Integrated Barcode reader*	Reads code 128 (A,B,C), Code 39, Code 93, and CODABAR.
Other Features:	
Compatible Dyes	Cyanine 3 and Cyanine 5, and Alexa 647, 555, and 660
Laser Information	1 - SHG-YAG laser, 532nm 1 - Helium-Neon laser, 633nm Power: 20 mW at 532 nm and 23 mW at 633 nm both controlled to 13 mW
Scan Window Maximum	21.6mm x 71mm
PMT Adjustment	Allows adjustment of signal levels from 100% (default) to 1%
Detection Limit	0.05 chromophores per square micron
Pixel Placement Error	1 pixel @ 5 micron resolution
Uniformity	5% CV global non-uniformity; average local non-uniformity is typically 1% based on 100 micron area
Glass Specifications Supported	1" x 3" (25mm x 75mm) glass slide Width: 24.95mm to 26.1mm Length: 74.8mm to 76.45mm Thickness: 0.9mm to 1.1mm Non-Mirrored slides of low intrinsic fluorescence

Sole Source Specifications: Feature Extraction Software

Feature Extraction Software processes TIFF scan images of Agilent and non-Agilent microarrays scanned on the Agilent Scanner.

Features at a glance:

- Performs image analysis of 2, 3, 5 or 10um scan images
- Automates batch data extraction of images from Agilent or non-Agilent microarrays
- Automates On-Time batch data extraction of images from Agilent microarrays as soon as they are produced by the Agilent scanner
- Processes Agilent 20-bit or XDR (EXtended DYNAMIC RANGE) scan images to increase dynamic range to measure both very high and very low intensity features
- Identifies highest quality pixels in each feature for signal quantitation and rejects outlier pixels
- Detects and removes spatial gradients and backgrounds
- Normalizes using rank consistency filtering with LOWESS intensity normalization
- Outputs result files compatible with GeneSpring GX, CGH Analytics, ChIP Analytics, Rosetta Resolver and other popular analysis applications
- Outputs QC reports tailored to specific microarray applications

PC data System Specs (included with purchase of the G2565CA bundle):

PC Data system specs:

HP XW4600 Workstation

Processor: Intel® Core™ 2 Duo E6850 3.00 GHz.

Operating System: Windows XP Service Pack 2

Memory: 4 Gb DDR2-667 ECC

Hard Drives: 2ea 250GB SATA/300 7200rpm

Graphics: NVIDIA Quadro FX1700 (512 MB)

Optical Drive: 16X DVD+/-RW SuperMulti SATA

Connectivity: 2ea LAN cards

Display: HP 20" LCD

Accessories: Keyboard, USB Optical mouse, Power cords, mouse pad

Service: Protected by HP Services, including a 3 years parts, 3 years labor, and 3 years onsite service (3/3/3) standard warranty.