

SureScan Dx Microarray Scanner — Compact, Sensitive, and Accurate



Agilent's IVD marked microarray scanner is ideal for clinical labs and hospitals

The SureScan Dx Microarray Scanner is the foundation of our complete microarray solution and represents the latest innovation in scanner technology from Agilent.

Exceptional limits of detection provide the ability to obtain as much bio-logical information as possible, with sensitivity and resolution — from a single data point or a single experiment.

Confidence in results

- The precision and reproducibility study demonstrated that Gene Expression and CGH microarray probes were highly reproducible when scanned across multiple microarrays, scanners, operators and days
- Exceptional limit of detection allows accurate measurement of very low signals
- Precision-engineered optics enable high feature resolution
- Built-in ozone protection minimizes signal degradation

Streamlined workflow

- Continuous slide loading capability to remove batch-loading restrictions
- Compact footprint optimizes bench space utilization

Reproducible data

Gene Expression

Background subtracted signals, for both the red and green channels, had a 1-sided 95% CI of Coefficient of Variation of <15%: 7.92% in the green channel and 8.92% in the red channel.

CGH

The log ratio of CGH probes had a 1-sided 95% CI of standard deviation of <0.06 at 0.03.

Ordering information

Product	Part Number
SureScan Dx Microarray Scanner Bundle <i>For sale in registered countries*</i>	G5761AA

Specifications

Feature	Description
Dynamic Range	Single scan 16-bit dynamic range $>10^4$ Single scan 20-bit dynamic range $>10^5$ Dual scan extended dynamic range (XDR) $>10^6$
Resolution	2, 3, 5 and 10 microns
Dynamic Auto-Focus	Continually adjusts scanner's focus, keeping in focus at all times
Autoloader	24-slide cassette allows for hands-off operation with continuous access for limitless scan runs
Integrated Barcode Reader	Reads code 128, Code 39, Code 93, and CODABAR
Compatible Dyes	Cyanine 3 and Cyanine 5, and Alexa 647, 555, and 660
Laser Information	Wavelengths: - Green solid-state laser: 532 nm - Red solid-state laser: 640 nm Power: both controlled to 13 mW
Scan Window Maximum	71 mm x 21.6 mm
PMT Adjustment	Automatic PMT gain calibration before each run allows adjustment of signal levels from 100% (default) to 1%
Detection Limit	0.01 chromophores per square micron
Pixel Placement Error	1 pixel at 5-micron resolution
Uniformity	5% CV global nonuniformity, average local nonuniformity is typically 1% based upon 100-micron features
Scan Time	2-color simultaneous data acquisition in 16 minutes per for 3-micron scans and 24 minutes for 2-micron scans (scan region of 61 mm x 21.6 mm)
Data Workstation and Operation System	PC based with Windows 10 Pro operating systems. See website for latest information
Approximate Scanner Dimensions	Height: 16.5" (42 cm), Width: 17" (43 cm); Depth: 26" (67 cm)
Weight Scanner	125 lbs (56.8 kg)
Power Input	100 – 240 Vac, 50 – 60 Hz, 250 VA max.
Fuses	Two power supply fuses: T4A, 250 VAC
Humidity	Operating: 15% to 85% RH at 30°C
Altitude	Operating maximum: 3,000 m (9,843 ft)
Operating Temperature Range	15° to 30°C
Laser Product Classification	Class 1

*The SureScan Dx Microarray Scanner system is IVD marked for in vitro diagnostic use in the U.S, European Union, China, Japan, Singapore, and few other countries. The SureScan Dx Microarray Scanner system is Class II, 501(k) exempt in the U.S and European IVDR Class A.

Intended Use: The SureScan Dx Microarray Scanner system consisting of SureScan Dx Microarray Scanner with autoloader, and Agilent Microarray Scan Control software is intended to measure fluorescence signals of labeled DNA and RNA target hybridized to microarrays.

Indications for Use: The SureScan Dx Microarray Scanner system is indicated for use in a clinical laboratory environment when measuring fluorescence signals of labeled DNA and RNA target hybridized to microarrays used as part of a validated diagnostic assay.

www.agilent.com/genomics/surescan

For In Vitro Diagnostic Use
PR7001-2729

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