



MAGPIX[®] INSTRUMENTATION

The new wave in multiplexing

Accelerate your research at a price you can afford, using the xMAP[®] technology you trust. The new MAGPIX instrument offers your lab the benefits of multiplexing at a more compact size and price.

You'll make breakthrough discoveries faster when you perform multiple, quantitative immunoassays using a single sample, revealing complex networks and complete systems in a single experiment.

Millipore's new MAGPIX instrumentation, combined with our MILLIPLEX[®] MAG magnetic bead-based multi-analyte panels, analysis software, and technical support, provides a complete solution for rapid, accurate biomarker quantification.

Visit our website to receive a quote and learn more about the MAGPIX instrumentation and our broad offering of kits -- www.millipore.com/MAGPIX.



Advantages:

- **Easy-to-use, magnetic bead-based technology**
- **Simultaneously measure up to 50 analytes** in as little as 25 μ L of sample
- **Small footprint** – saves space on your lab bench
- **Portable** – easily moves from bench to bench, or lab to lab
- **Lower-cost platform**
- **More than 25 MILLIPLEX[®] MAG Panels** – the largest offering of magnetic bead immunoassay panels for **metabolic disease, inflammation, toxicity, neuroscience, and cell signaling research**

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Research. Development. Production.

MAGPIX INSTRUMENT SPECIFICATIONS

Accuracy and Precision

- Sample uptake volume $\pm 5\%$
- Classification of microspheres $> 80\%$
- Misclassification of microspheres $\leq 2\%$
- Distinguishes 1 to 50 unique xMAP® microspheres in a single sample
- Temperature control $\pm 1^\circ\text{C}$ of target
- Sample carryover $\leq 4\%$
- Soluble background fluorescence emissions at $590\text{ nm} \pm 24\text{ nm}$ automatically subtracted from fluorescence intensity values

Sensitivity

- Detect ≤ 700 fluorochromes phycoerythrin (PE) per xMAP microsphere

Optics

- Reporter channel, LED excitation: $511\text{ nm} \pm 27\text{ nm}$
- Reporter channel dynamic range: ≥ 3 decades of detection
- Reporter / Classification detector: CCD
- Reporter / Classification A/D resolution 16 bits
- Focus Lens: 5x magnification

Fluidics

- 96-well plate capability with additional off-plate reagent area
- Piercing probe capability
- Auto adjusting probe capability
- Sample uptake volume $20\ \mu\text{L} - 200\ \mu\text{L}$.
- Internal / removable drive bottle and waste bottle
- Disposable Drive bottle volume: 650 mL (8 plates)
- Waste bottle volume: 850 mL

Electronics:

- USB 2.0 communications
- Input voltage range: 100 – 120 or 200 – 240 VAC and 50 – 60Hz

Setup

- Installation ≤ 2 hours
- System calibration < 10 minutes

Capacity

- Analyze multiple 96-well plates per batch
- Analyze multiple assay templates per plate
- Automatic sampling from a 96-well plate. The following microtiter plates are compatible with the MAGPIX plate holder: flat bottom, conical, round, filter bottom, [overall height no more than 19 mm (0.75 inches)], any color
- Drive and waste bottles hold enough volume to run up to eight 96-well plates between refills
- Detect and distinguish surface reporter fluorescence emissions at $590\text{ nm} \pm 24\text{ nm}$ on the surface of 1-50 unique xMAP microsphere sets in a single sample

General

- Physical dimensions: 16.5 cm (6.5 inches) W x 60 cm (23.5 inches) D x 43 cm (17 inches) H. Additional space required for the monitor/PC stand, keyboard, mouse and barcode scanner does not exceed 64.8 cm (25.5 inches) W x 61 cm (24 inches)
- Weight: up to 18 kg (40lbs)
- Temperature control: Maintains samples at a constant temperature from $35^\circ\text{C} - 60^\circ\text{C}$ ($95^\circ\text{F} - 131^\circ\text{F}$)
- Warm up time: 15 minutes
- Plate throughput time: ≤ 60 minutes

Operating Environment:

- Temperature: $15^\circ\text{C} - 35^\circ\text{C}$ ($59^\circ\text{F} - 95^\circ\text{F}$)
- Humidity: 20% - 80%RH, non-condensing
- Altitude: up to 2400 m (7874 ft) above mean sea level

Monitor Specifications

- Screen resolution and number of colors: SXGA 1280 x 1024 with 32-bit color
- Screen size: 43 cm (17")

PC Specifications

- Processor: 2.8 GHz Intel® Core 2
- Main memory: 4 G RAM
- Hard disk drive: 160 GB
- Communication/Ports: four USB version 2.0 compatible high speed ports
- DVD-RW drive
- Operating system: Microsoft® Windows® XP Professional, SP3
- CE marked and UL listed

TO RECEIVE TECHNICAL ASSISTANCE

In the **U.S. and Canada**, call toll-free 1-866-441-8400, or 1-636-441-8400.

In **Europe**, please call Customer Service:

- France: 0825.045.645
- Spain: 901.516.645 Option 1
- Germany: 01805.045.645
- Italy: 848.845.645
- United Kingdom: 0870.900.46.45

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For technical service go to www.millipore.com/techservice.



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Lit. No. PF3545EN00 07/10 BP-GEN-10-03329 Printed in U.S.A.
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