

## **MAGPIX®**

Multiplexed Genomic, and Proteomic Biomarker Analysis



# Less Sample Input. More Results.

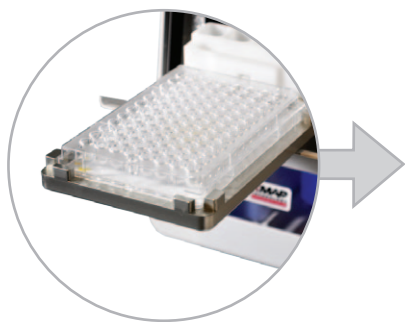
The MAGPIX system is a versatile multiplexing platform capable of performing qualitative and quantitative analysis of proteins and nucleic acids in a variety of sample matrices. This affordable system requires less sample input than many other current technologies and can perform up to 50 tests in a single reaction volume, greatly reducing sample input, reagents and labor while improving productivity.

The MAGPIX innovative design is based on CCD imaging technology, which allows for a compact, more robust system. Streamlined start-up and shut-down protocols and minimal maintenance requirements make the system easy to operate and maintain.

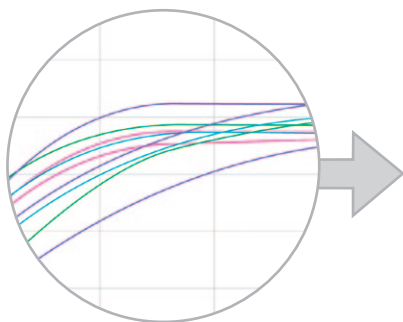
MAGPIX is supported with a broad menu of commercially available assay kits, as well as reagents to build your own assays. With MAGPIX, multiplexing is more accessible than ever.

## A Simple and Intuitive Solution.

The MAGPIX system is designed for ease of use allowing new and experienced users alike to set up and run an assay in a minimal amount of time. ELISA-like workflow, intuitive software interface, online training and 24/7 technical support will minimize your ramp-up time to multiplexing.



96-well plate



Up to 50 analytes/well



Up to 4,800 results in one hour

# A Versatile Platform to Meet Your Needs.

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Functions that previously required multiple instruments can now be performed on a single platform, giving you more flexibility and a greater array of options. Whether testing for a single analyte or multiple analytes, proteins or nucleic acids, MAGPIX delivers accurate analytical performance and efficient, easy-to-follow protocols.

MAGPIX is based on xMAP® Technology, a proven platform that has supported cutting-edge research for more than a decade. Innovations in optics have resulted in a compact, robust system that is user installable in less than two hours. These advancements and low maintenance requirements make MAGPIX the ideal platform for small laboratories with limited budgets.

- Ability to perform single and multiplex analysis
- Analysis of both proteins and nucleic acids
- Broad menu of commercially available assay kits and reagents for user-developed assays

## Applications

### Protein Research

Cytokines and Chemokines  
Cell Signaling  
Inflammatory Mediators  
Cancer Markers  
Cardiac Markers  
Protein Expression  
Infectious Disease

Transcription Factors  
Apoptosis  
Hormone Receptors  
Neurobiology  
Others

### Molecular Research

Gene Expression  
SNP Genotyping  
MicroRNA  
Others



# MAGPIX Features & Benefits

Let the Luminex MAGPIX system accelerate your research by putting the power of multiplexing technology well within your reach. This groundbreaking new product gives you more data, more efficiency and more options — all at a price you won't believe. Multiply your performance, multiply your efficiency and multiply your potential with the new Luminex MAGPIX system.

## Affordability

Benefit from an affordable multiplexing solution that costs up to 4x less than comparable ELISA assays.\*

## Versatility

Transition to multiplexing at your own pace and exponentially grow your data.

## Flexibility

Achieve a wider array of goals with the ability to analyze both proteins and nucleic acids.

## Compact Size

Reduce lab clutter with a smaller, more compact instrument that requires less linear bench space.

## Efficiency

Measure up to 50 targets in a single reaction volume and dramatically reduce sample input.

## Assay Support

Leverage a broad range of commercially available, pre-optimized assay kits, as well as reagents for user-developed assays.

# xPonent® Software Solutions

xPONENT offers industry-standard curve-fitting modules for quantitative analysis, allelic ratios for genotyping and qualitative algorithms for serology assays, as well as data visualization tools. The software can also be configured to automatically launch third-party data analysis programs for advanced statistical analysis.

## Software Options:

### Security Levels

The secure xPONENT package allows system administrators to set up user access levels

### 21 CFR Part 11

Offers multilevel user management, full audit trail, electronic records and electronic signatures

### IQ/OQ Protocol

Document system qualification to help laboratories meet regulatory compliance burdens



\* Price per result based on comparison of xMAP 42-plex kit to ELISA kit containing the same analyte.

## System Specifications

Performance	
Multiplexing capability	Up to 50 individual analytes
Reagent Compatibility	MagPlex® magnetic microspheres
Dynamic Range (Typical)	≥3.5 logs
Microplate Type	96-well plate
Reading Speed	96 wells ≤ 60 mins
Sample Temperature Control	35° - 60° C (95° - 131° F)
Sample Volume Uptake	20 - 200 µL
Probe Piercing	Yes
Auto Adjust-Probe Height	Yes
Daily Start-Up	≤ 15 minutes
General	
Physical Dimensions	16.5 cm W x 60 cm D x 43 cm H (6.5" W x 23.5" D x 17" H)
Weight	17.5 kg (38.5 lbs)
Power	110 - 120 VAC or 200 - 240 VAC and 50 - 60 Hz
Optics	
Detection	CCD Imager
Reporter Channel Excitation	511 nm
Classification Channel Excitation	621 nm
Regulatory	
Regulatory	All Luminex instrumentation is CE and Safety Agency marked (MET and/or UL and/or TUV and/or NEMKO) to electrical/safety device standards. For details on approvals and standards compliance please contact Luminex.



**MAGPIX**  
Powered by Luminex xMAP Technology



# Luminex Instrumentation: Solutions you can rely on

Since its incorporation in 1995, Luminex has become a global leader in multiplexing solutions. Luminex offers a full family of instruments designed to meet all your multiplexing needs. Whether it's the efficient MAGPIX system, the dynamic Luminex® 100/200™ system or the powerful FLEXMAP 3D® system, we're sure to have a solution that will help you optimize your research capabilities. Learn more about our suite of enabling multiplexing solutions. Only Luminex offers the piece of mind that comes from:

- Peer reviewed publications
- Over 50 510k cleared assays
- Patented xMAP technology
- Thousands of instruments placed worldwide
- Strong network of market leading partners

## *Luminex Instrumentation.*

Feature	MAGPIX	Luminex 100/200	FLEXMAP 3D
Software	xPONENT®	xPONENT	xPONENT
Optics	LED/CCD Camera	Lasers/APDs/PMTs	Lasers/APDs/PMTs
Hardware	Fluorescent Imager	Flow Cytometry based	Flow Cytometry based
Bead Compatibility	MagPlex®	MagPlex	MagPlex
		MicroPlex®	MicroPlex
		SeroMAP™	SeroMAP
		LumAvidin®	LumAvidin
		xTAG®	xTAG
Multiplex Capacity	50	100 (80 for MagPlex)	500
Read Time	~ 60 mins/96-well plate	~ 40 mins/96-well plate	~ 20 mins/96-well plate ~ 75 mins/384-well plate
Applications	Protein/Nucleic Acid	Protein/Nucleic Acid	Protein/Nucleic Acid
510(k) Assays	---	Over 50	---
Dynamic Range	≥ 3.5 logs (typical)*	≥ 3.5 logs	≥ 4.5 logs
Microtiter Plate	96 well	96 well	96 well and 384 well
Footprint Including PC (Linear Bench Space)	64.8 cm (24")	80.0 cm (32")	64.8 cm (24")
Weight (Analyzer)	17.5 kg (38.5 lbs)	49 kg (113 lbs)	77.1 kg (170 lbs)

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