

# MAGPIX System Specifications

## For Use With xPONENT 4.3 Software

### General

Physical Dimensions:	16.5 cm (6.5 in.) W x 60cm (23.5 in.) D x 43 cm (17 in.) H Additional space required for the monitor/PC stand, keyboard, mouse, and barcode scanner does not exceed 64.8 cm (25.5 in.) W x 61 cm (24 in.)
Weight:	18 kg (40 lbs.)
Operating Temperature:	15° C to 35° C (59° F to 95° F)
Operating Humidity:	20% to 80%, non-condensing
Altitude:	Operation up to 2,400 m (7,874 ft.) above mean sea level
System Warmup Time:	15 min.
System Initialization:	< 15 min. (Includes fluidics flush and weekly calibration)
System Verification:	5 min.
Temperature Control:	Samples are maintained at a constant temperature when using the heater block (from 35° C to 60° C (95° F to 131° F), +/- 2° C of set point)
Plate Run Time:	96-well plate ≤ 60 min.

### Electronics

*USB 2.0-compatible communications link for fast data transfer*

Input Voltage Range:	100 - 120 V- ±10%, 1.4 Amp, and 200 - 240 V- ±10%, 0.8 Amp, 47 - 63 Hz
Installation Category:	II - As defined in IEC 61010-1:2010
Pollution Degree:	2 - As defined in IEC 61010-1:2010

### Optics

Reporter Channel:	LED excitation: 511 nm ± 27 nm
Reporter Channel Dynamic Range:	3.5 decades of detection
Reporter/Classification Detector:	CCD
Reporter Channel Detection:	A/D resolution 16 bits
Focus Lens:	5x magnification

## Fluidics

Sample Uptake Volume:	20 to 200 µL
Well-to-well Carryover:	< 4%
Piercing Probe Capability:	Yes
Auto Adjusting Probe Capability:	Yes
Internal/Removable Drive Bottle and Waste Bottle:	Yes
96-well Plate Capability with Additional Off-plate Reagent Area:	Yes

## Microspheres

Classification of xMAP® Microspheres:	≥ 80%
Total System Misclassification of xMAP Microspheres:	≤ 2%
Temperature Control:	±1° C of target
Distinguish 1 to 50 unique xMAP MagPlex® microspheres in a single sample	
Detects a minimum of 700 fluorochromes of phycoerythrin (PE) per xMAP microspheres	
Soluble background fluorescence emissions at 590 nm ± 24 nm automatically subtracted from fluorescence intensity values	

## PC and Monitor Specifications

Processor:	3.0 GHz Intel Core i5 (or higher)
Main Memory:	8 GB RAM
Hard Drive:	1 TB Hard drive space (or higher)
Ports:	1x USB 3.1 Type-C 5x USB 3.1 Type-A 4x USB 2.0 Type-A 2x Display ports 1x VGA port 1x DVD R/W type drive PCI USB Adapter Card
Operating System:	Microsoft® Windows® 10 Professional 64 bit, Version 1709 or greater
Screen Resolution:	SXGA 1,280 x 1,024, 32 bit color
Screen Size:	49.3 cm (19 in.)
Display Settings:	96 DPI font Default Windows 10 theme

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