

Luminex® xMAP® INTELLIFLEX Platform

System Specifications

General	
Physical Dimensions	58.4 cm (23 in.) W x 61 cm (24 in.) D x 76.2 cm (30 in.) H Note: Allow an additional 3.18 cm (1.25 in.) clearance to all dimensions for proper cooling
Weight	54.4 kg (120 lbs)
Operating Temperature	15 to 30 °C (59 to 86 °F)
Operating Humidity	20 to 80%, non-condensing
Altitude	Operation up to 2,400 m (7,874 ft.) above mean sea level
Shipping and Storage Temperature	0 to 50 °C (32 to 122 °F)
Shipping and Storage Humidity	20 to 80%, non-condensing
System Warmup Time	30 min <ul style="list-style-type: none">• Systems that remain inactive for at least 4 hours will require a warmup to restart the lasers• The system resets the 4-hour internal clock after acquiring the sample, running system calibrators, running system controls, or warming up the instrument
System Initialization	< 45 min (including laser warmup and weekly calibration)
System Verification	5 min
Temperature Control	Samples are maintained at a constant temperature when using the heater block (from 35 to 60 °C (95 to 131 °F), +/- 1 °C of set point)
Plate Run Time	96-well plate in ~20 min 384-well plate in ~75 min
Electronics	
USB For Data Transfer And Connection To Optional Peripherals (Keyboard, Mouse, And/Or Printer)	
Input Voltage Range	100–120 V, 6.0 A, 50/60 Hz or 200-240 V, 3.0 A, 50/60 Hz
Installation Category	II - As defined in IEC 61010-1:2017
Pollution Degree	II - As defined in IEC 61010-1:2017
Fluidics	
Cuvette	200 µm square flow channel
Sample Injection Rate	2 µL/sec
Sample Uptake Volume	10 to 200 µL
Sheath Flow Rate	7.9 ± 0.9 mL/min, temperature viscosity compensated
Sheath Pressure	8 to 13 psi for normal operations; 15 psi maximum
Piercing Probe Capability	Yes
Auto-Adjusting Capability	Yes

Optics	
Classification Laser	638 nm, nominal output 30 mW, diode; mode of operation, continuous wave (CW)
Classification Detector	Avalanche photodiodes with temperature compensation
Reporter Channel Detection	A/D resolution 16 bits
Reporter Channel Dynamic Range (RP1)	≥ 5.5 decades of detection (verified with beads dyed with a high concentration of organic dye)
Reporter Laser (RP1)	532 nm diode-pumped solid-state laser (DPSS); mode of operation, continuous wave (CW); output power varies based on mode with a maximum output power of 50 mW
Reporter Detector (RP1)	Photomultiplier tube, detection bandwidth of 565 to 585 nm
Microspheres	
Distinguish 1 To 500 Unique xMAP® Microspheres In A Single Sample.	
Classification of xMAP® Microspheres	≥ 80%
Total System Misclassification of xMAP® Microspheres	≤ 2%
Well-to-Well Carryover	< 4%
RP1 detects a minimum of 50 fluorochromes of phycoerythrin (PE) per xMAP® microsphere. RP2 detects a minimum of 500 fluorochromes per xMAP® microsphere. Soluble background fluorescence emissions are automatically subtracted from fluorescence intensity values.	
Integrated PC and Integrated Barcode Reader	
Ports	USB – 1 port on front of system, 4 ports in rear Ethernet – 1 port in rear of system (CAT5 10/100/1,000 Mbps)
Operating System	Microsoft® Windows® 10 IoT Enterprise LTSC
Screen Resolution	1,366 x 768 pixels
Screen Size	39.6 cm (15.6 in.)
Barcode Reader	For importing target values from the xMAP® INTELLIFLEX Calibration and Performance Verification Kits

The xMAP® INTELLIFLEX System has been tested and complies with the safety requirements for the United States and Canada and is marked with the TUV label. The xMAP® INTELLIFLEX System complies with the European Union (EU) safety requirements and therefore may be marketed in the Europe Single Market. For details on approvals and standards compliance, please contact Luminex® Corporation.

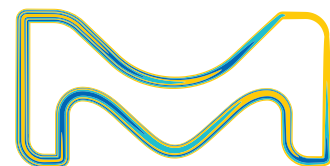
For more information on the xMAP® INTELLIFLEX System, visit SigmaAldrich.com/intelliflex

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To place an order or receive technical assistance

Order/Customer Service: SigmaAldrich.com/order
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