

xMAP INTELLIFLEX® 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 | 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 |
| Side Eject Door | Supports flexible system positioning in relation to external equipment DR-SE model only |
| Automation | Optional REST/OpenAPI interface is available to support integration into automated environments |

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 | 637 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 Channel Dynamic Range (RP2) DR-SE Model Only | ≥4.5 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 maximum output power of 50 mW |
| Reporter Laser (RP2) DR-SE Model Only | 405 nm diode laser; mode of operation, continuous wave (CW); nominal output power of 50 mW |
| Reporter Detector (RP1) | Photomultiplier tube, detection bandwidth of 565 to 585 nm |
| Reporter Detector (RP2) DR-SE Model Only | Photomultiplier tube, detection bandwidth of 421 to 441 nm |
| Doublet Discrimination Detector | Avalanche photodiodes with temperature compensation |

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.



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