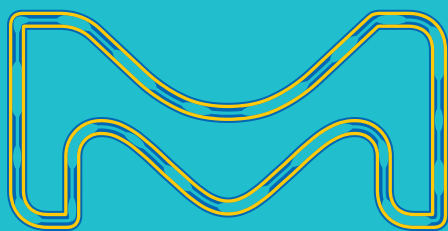


Next Generation Multiplexing Platform

Luminex® xMAP®
INTELLIFLEX System



The life science business
of Merck operates as
MilliporeSigma in the
U.S. and Canada.

Millipore®

Preparation, Separation,
Filtration & Monitoring Products

The Luminex® xMAP® INTELLIFLEX system is a compact, flow-based, multiplex platform that simplifies your workflow by combining the reliable performance of xMAP® technology with advanced features to elevate your assay performance and empower assay development innovation.

By combining low- and high-plex capabilities, the xMAP® INTELLIFLEX system gives

fast, reliable results.

Features of the xMAP® INTELLIFLEX System:

- **Wide Dynamic Range**
Avoid repeat testing due to out-of-range values with the widest dynamic range of any xMAP® platform.
- **Compact Footprint**
Reduce lab bench requirements with a compact footprint that features an embedded PC and a touchscreen user interface.
- **User-Friendly and Flexible Software**
Quickly master the platform with easy-to-use software that allows you to optimize workflows, gather performance insights, and export data into common analysis tools.
- **Compatible with Existing MILLIPLEX® Assays**
Experience the versatility of xMAP® technology with an open architecture design, enabling you to choose from the most extensive menu of MILLIPLEX® assays and custom assay solutions.



Optimize Your Workflow

Quickly assemble plate configurations from saved components and start your run in as few as 20 seconds. Plate configurations can be set up with just a few clicks or can be imported from a CSV template.

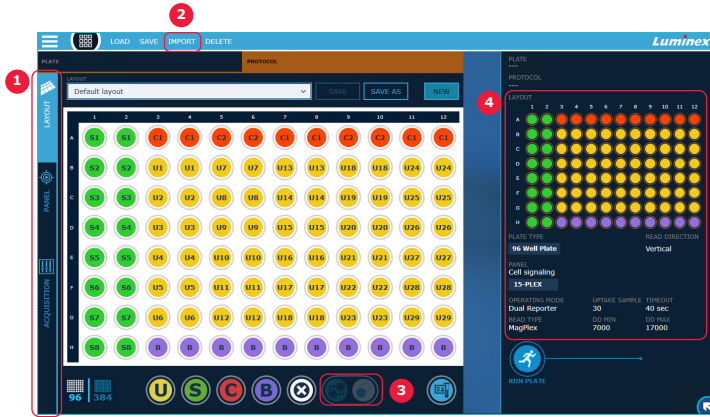


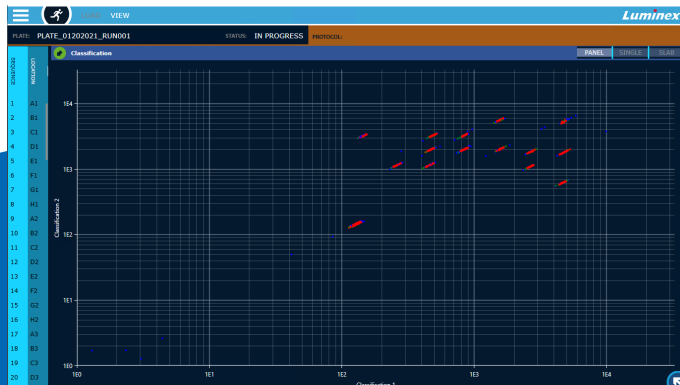
Figure 1. xMAP® INTELLIFLEX exemplary layout controls:

- 1 Define plate layouts, panels, or acquisition parameters in any sequence, and save modular components for use in different acquisitions.
- 2 Import plate layouts, sample lists, or panels from CSV.
- 3 Define replicates with intuitive copy-and-paste controls.
- 4 View run parameters at a glance.

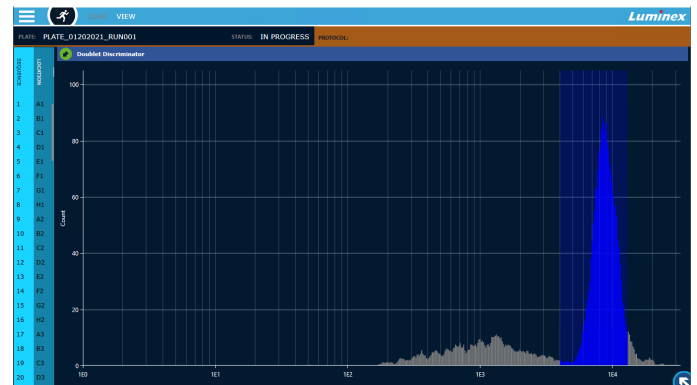
Monitor Performance Fast

Quickly navigate between multiple data types for comprehensive, real-time run monitoring.

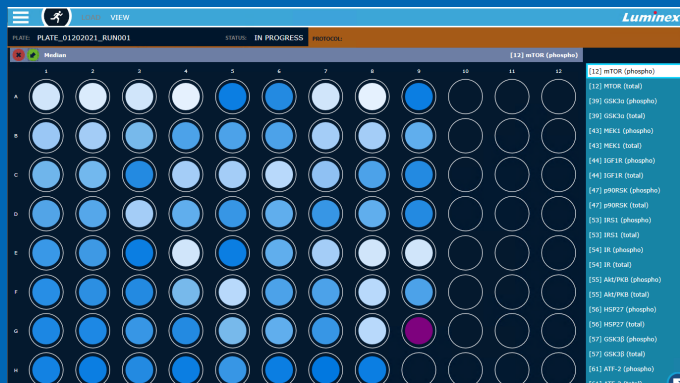
Bead Map



Doublet Discriminator Gate



MFI Heat Map



Well Status

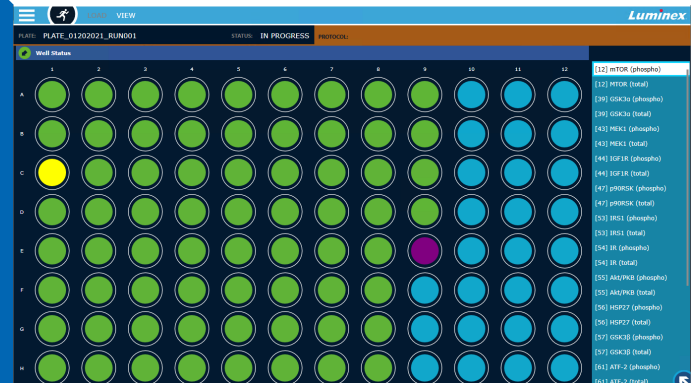


Figure 2. xMAP® INTELLIFLEX run monitoring data examples.

Easily Export Data for Analysis

Export results in one of two CSV formats—an xPONENT®-style format or an INTELLIFLEX style data format—designed for flexibility and simplicity. The xPonent®-style data format can be analyzed using our Belysa™ Immunoassay Curve Fitting Software.

INSTRUMENT DATA	PLATE INFO	WELL INFO	WELL STATISTICS	RESULT DATA	CLASSIFICATION
☐ MODEL NAME	☒ PLATE NAME	☐ SAMPLE VOLUME	☒ TOTAL EVENTS	☒ ANALYTE NAME	☐ CL1, CL2, CL3, RSS
☐ INSTRUMENT TYPE	☐ PLATE STATUS	☐ UPTAKE VOLUME	☐ TOTAL GATED EVENTS	☒ REGION	
☒ SERIAL NUMBER	☒ PLATE START	☒ PANEL NAME	☐ TOTAL CLASSIFIED EVENTS	☐ MEAN	
☐ SOFTWARE VERSION	☐ PLATE END	☒ DD GATE LOW	☐ TOTAL ACTIVE EVENTS	☐ MEDIAN	
☒ CALIBRATION STATE	☐ DESCRIPTION	☒ DD GATE HIGH	☐ %CV OF COUNT PER REGION	☒ COUNT	
☐ CALIBRATION LOT	☐ PLATE GEOMETRY	☐ PLATE HEATER TEMP		☐ % CV	
☐ CALIBRATION LOT EXPIRATION	☐ PLATE TYPE NAME	☐ BEAD TYPE		☐ STANDARD DEVIATION	
☐ CALIBRATION LOT EXPIRED		☒ OPERATING MODE		☐ PEAK	
☐ CALIBRATION TIMESTAMP		☐ ACQUISITION DURATION		☐ RATIO (RP1/RP2)	
☐ VERIFICATION STATE		☒ SAMPLE ID		☐ TRIMMED PEAK	
☐ VERIFICATION LOT		☒ WELL LOCATION		☐ TRIMMED MEAN	
☐ VERIFICATION LOT EXPIRATION		☒ WELL TYPE		☐ TRIMMED %CV	
☐ VERIFICATION LOT EXPIRED		☒ WELL STATUS		☐ TRIMMED STANDARD DEVIATION	
☐ VERIFICATION TIMESTAMP		☐ DILUTION		☒ AVERAGE MFI	
☐ FLUIDICS VER STATE				☒ REPLICATE %CV	
☐ FLUIDICS VER LOT					
☐ FLUIDICS VER LOT EXPIRATION					
☐ FLUIDICS VER LOT EXPIRED					
☐ FLUIDICS VER TIMESTAMP					

Figure 3. Export selection screen for xMAP® INTELLIFLEX data format.

Specifications

Performance	
Multiplexing Capability	Up to 500 individual analytes per well
Typical Dynamic Range	≥ 5.5 logs
Plate Run Time	96-well plate in ~20 min 384-well plate in ~75 min
Sensitivity	Commercially available kits deliver sensitivity as low as sub-picogram level
General	
Physical Dimensions	58.4 cm (23 in.) W x 61 cm (24 in.) D x 76.2 cm (30 in.) H
Weight	54.4 kg (120 lbs)
System Warmup	30 min
Operating Temperature	15–30°C (59–86°F)
Operating System	Microsoft® Windows® 10 IoT Enterprise LTSC
Barcode Reader	For importing target values from the xMAP® INTELLIFLEX Calibration and Performance Verification Kits
Fluidics	
Sheath Pressure	8–13 psi
Sample Injection Rate	2 µL/sec
Sample Uptake Volume	10–200 µL
Optics	
Lasers	1 Classification laser 1 Reporter laser
Classification Laser Excitation	638 nm
Reporter Laser 1 (RP1) Excitation	532 nm
RP1 Detector	565–585 nm

Ordering Information

Product Description	Cat. No.
xMAP® INTELLIFLEX RUO System	
Includes:	INTELLIFLEX-RUO
• xMAP® INTELLIFLEX RUO Instrument • xMAP® INTELLIFLEX Software (Installed) • xMAP® INTELLIFLEX Quick Guide • xMAP® INTELLIFLEX Performance Verification Kit • xMAP® INTELLIFLEX Calibration Kit • xMAP® Sheath Fluid PLUS, 20 L • (3) Sample Probe Needles • Sample Probe Height Adjustment Kit • Power Cable, Country-Specific • Off-Plate Reagent Block • Keyboard and Mouse Combo • Heater Block for 96-Well Microtiter Plates • Heater Block for 384-Well Microtiter Plates • Empty Cubitainer for Waste	
xMAP® INTELLIFLEX Performance Verification Kit RUO, 20 Uses	IFX-PVER-K20
xMAP® INTELLIFLEX Calibration Kit RUO, 20 Uses	IFX-CAL-K20
xMAP® Sheath Fluid PLUS RUO, 20 L	40-50021
xMAP® Sheath Concentrate PLUS, 1 L	40-50023
Belysa™ Immunoassay Curve Fitting Software	40-122
BioTek® 405™ LS Magnetic 96-Well Washer	40-094
Instrument Services	
Platinum Services	SLA-IFLEX-PLATINUM
Gold Service	SLA-IFLEX-GOLD
Bronze Service	SLA-IFLEX-BRONZE
Validation Services	
IQ/OQ with Installation	VP-INTELLIFLEX-IQOQ
Yearly OQ	VP-INTELLIFLEX-OQ

To learn more about the xMAP® INTELLIFLEX System, visit SigmaAldrich.com/Intelliflex

Or, explore our MILLIPLEX® portfolio of immunoassays, at SigmaAldrich.com/milliplex

Millipore®

Preparation, Separation,
Filtration & Monitoring Products

Merck KGaA
Frankfurter Strasse 250
64293 Darmstadt, Germany

MerckMillipore.com

To place an order or receive technical assistance in Europe, please call Customer Service:

France: 0825 045 645

Spain: 901 516 645 Option 1

Germany: 069 86798021

Switzerland: 0848 645 645

Italy: 848 845 645

United Kingdom: 0870 900 4645

For other countries across Europe, please call: +44 (0) 115 943 0840

Or visit: [MerckMillipore.com/offices](https://www.MerckMillipore.com/offices)

For Technical Service visit: [MerckMillipore.com/techservice](https://www.MerckMillipore.com/techservice)

© 2021 Merck KGaA, Darmstadt, Germany and/or its affiliates. All Rights Reserved. Merck, the vibrant M, and Millipore are trademarks of Merck KGaA, Darmstadt, Germany or its affiliates. All other trademarks are the property of their respective owners. Detailed information on trademarks is available via publicly accessible resources.

MK_BR8111EN
36758
07/2021

Distributed by Abacus dx

1800 ABACUS (AUS) 0800 222 170 (NZ) | info@abacusdx.com | www.abacusdx.com

abacus dx