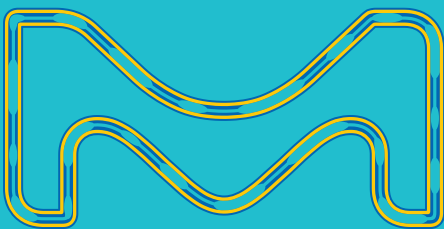


# Next Generation Multiplexing Platform

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.**

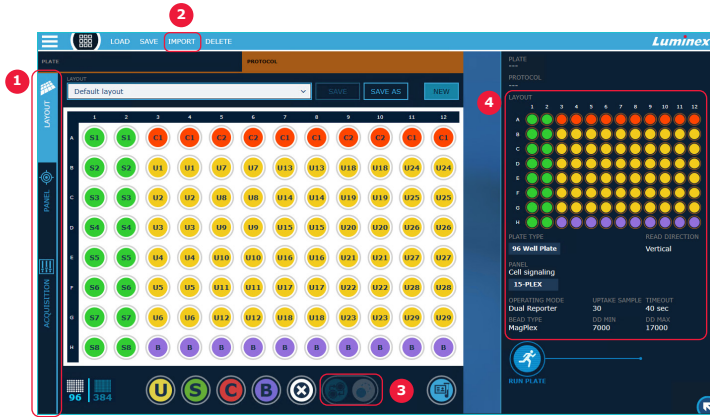
#### Features of the xMAP® INTELLIFLEX System:

- **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.



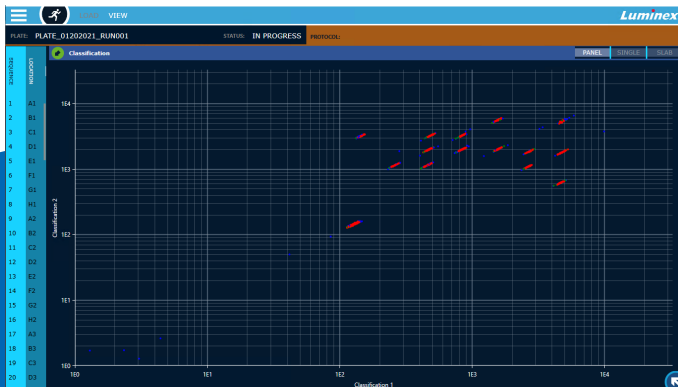
**Figure 1.** xMAP® INTELLIFLEX exemplary layout controls:

- 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.

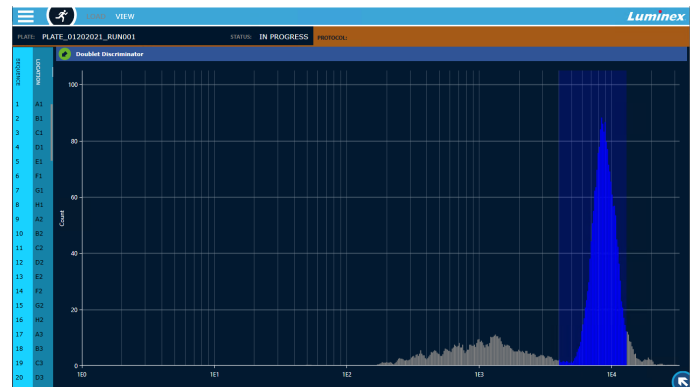
# Monitor Performance Fast

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

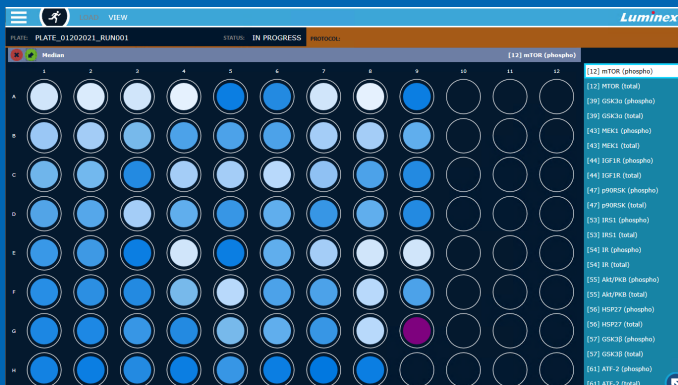
## Bead Map



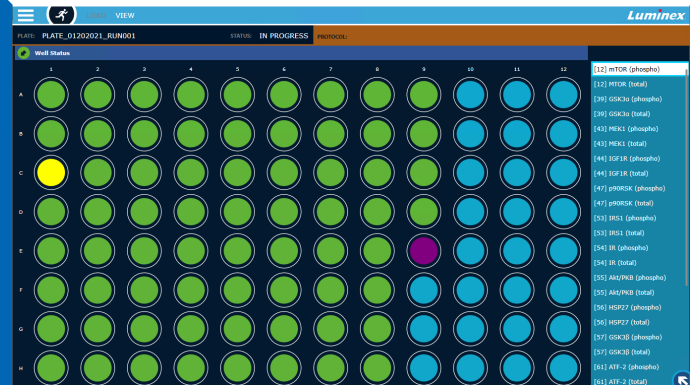
## Doublet Discriminator Gate



## MFI Heat Map



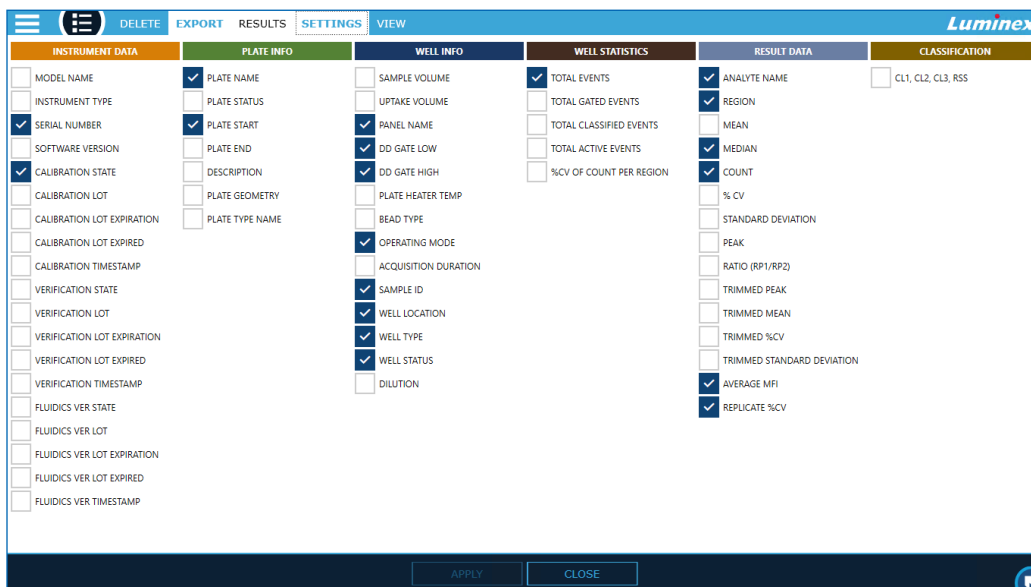
## Well Status



**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.



**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.
<b>xMAP® INTELLIFLEX RUO System</b>	
Includes:	<b>INTELLIFLEX-RUO</b>
<ul style="list-style-type: none"> <li>• xMAP® INTELLIFLEX RUO Instrument</li> <li>• xMAP® INTELLIFLEX Software (Installed)</li> <li>• xMAP® INTELLIFLEX Quick Guide</li> <li>• xMAP® INTELLIFLEX Performance Verification Kit</li> <li>• xMAP® INTELLIFLEX Calibration Kit</li> <li>• xMAP® Sheath Fluid PLUS, 20 L</li> <li>• (3) Sample Probe Needles</li> <li>• Sample Probe Height Adjustment Kit</li> <li>• Power Cable, Country-Specific</li> <li>• Off-Plate Reagent Block</li> <li>• Keyboard and Mouse Combo</li> <li>• Heater Block for 96-Well Microtiter Plates</li> <li>• Heater Block for 384-Well Microtiter Plates</li> <li>• Empty Cubitainer for Waste</li> </ul>	
xMAP® INTELLIFLEX Performance Verification Kit RUO, 20 Uses	<b>IFX-PVER-K20</b>
xMAP® INTELLIFLEX Calibration Kit RUO, 20 Uses	<b>IFX-CAL-K20</b>
xMAP® Sheath Fluid PLUS RUO, 20 L	<b>40-50021</b>
xMAP® Sheath Concentrate PLUS, 1 L	<b>40-50023</b>
Belysa™ Immunoassay Curve Fitting Software	<b>40-122</b>
BioTek® 405™ LS Magnetic 96-Well Washer	<b>40-094</b>
<b>Instrument Services</b>	
Platinum Services	<b>SLA-IFLEX-PLATINUM</b>
Gold Service	<b>SLA-IFLEX-GOLD</b>
Bronze Service	<b>SLA-IFLEX-BRONZE</b>
<b>Validation Services</b>	
IQ/OQ with Installation	<b>VP-INTELLIFLEX-IQOQ</b>
Yearly OQ	<b>VP-INTELLIFLEX-OQ</b>

To learn more about the xMAP® INTELLIFLEX System, visit [SigmaAldrich.com/Intelliflex](https://SigmaAldrich.com/Intelliflex)

Or, explore our MILLIPLEX® portfolio of immunoassays, at [SigmaAldrich.com/milliplex](https://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