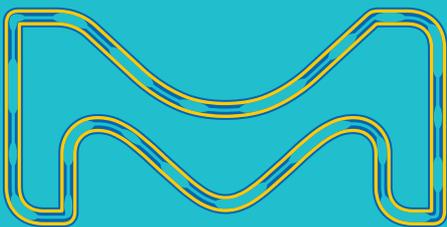


Next Generation Multiplexing Platform

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.
- **Dual Reporter Functionality**
Now get more data from each target with the second reporter channel that allows you to save on time and precious sample.



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.

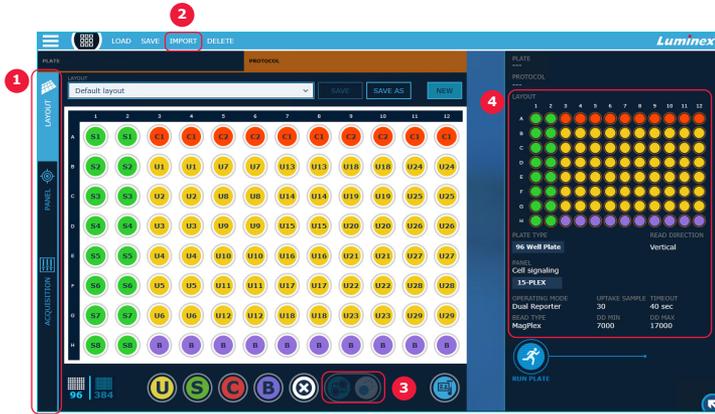


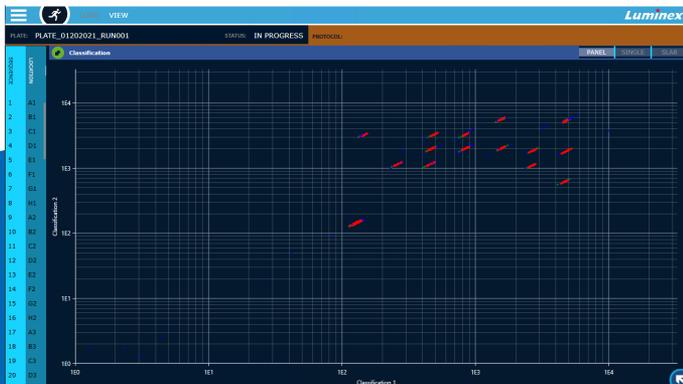
Figure 1. xMAP® INTELLIFLEX exemplary layout controls:

- 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

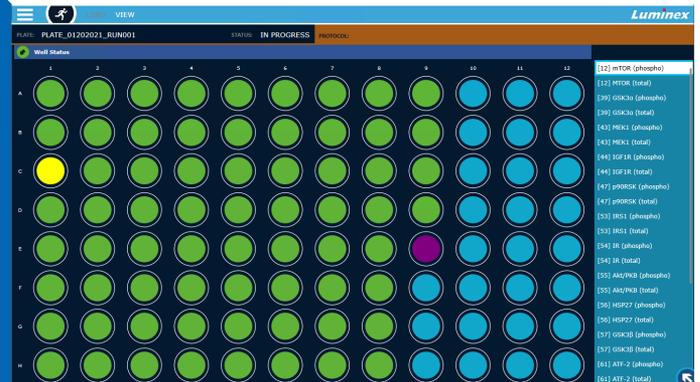


Figure 2. xMAP® INTELLIFLEX run monitoring data examples.

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.

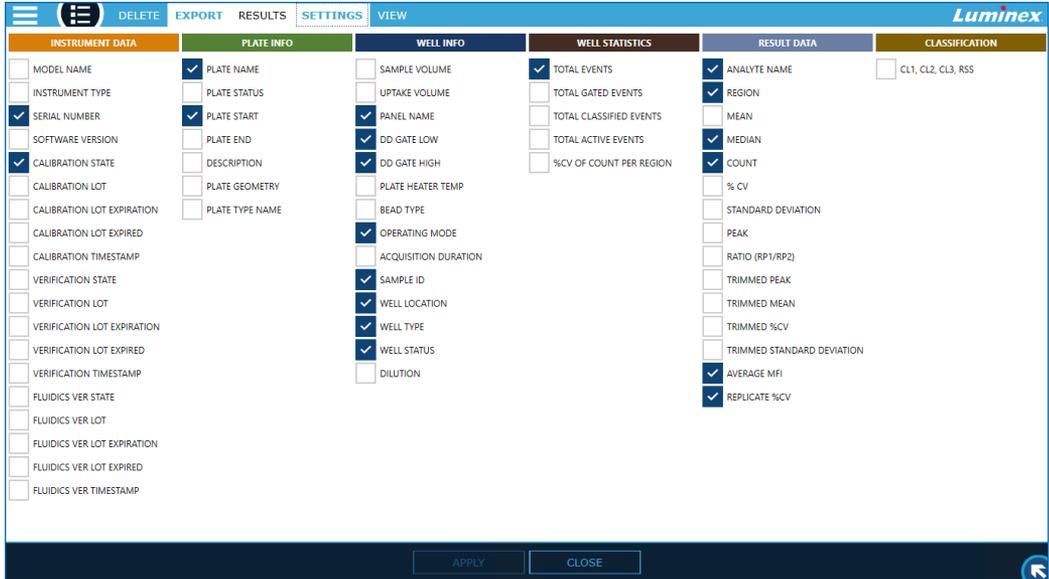
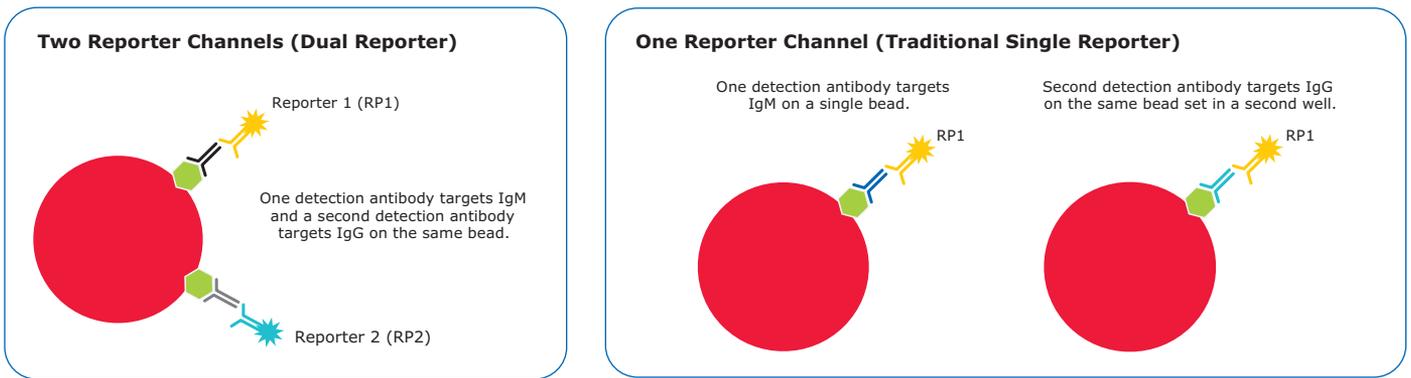


Figure 3. Export selection screen for xMAP® INTELLIFLEX data format.

Get More Data with Dual Reporter Functionality

With the addition of a second reporter channel, you can acquire data about two parameters per target protein or nucleic acid, saving on time and precious sample volume. This is ideal for measuring multiple isotypes or configurations that target the same antigen.



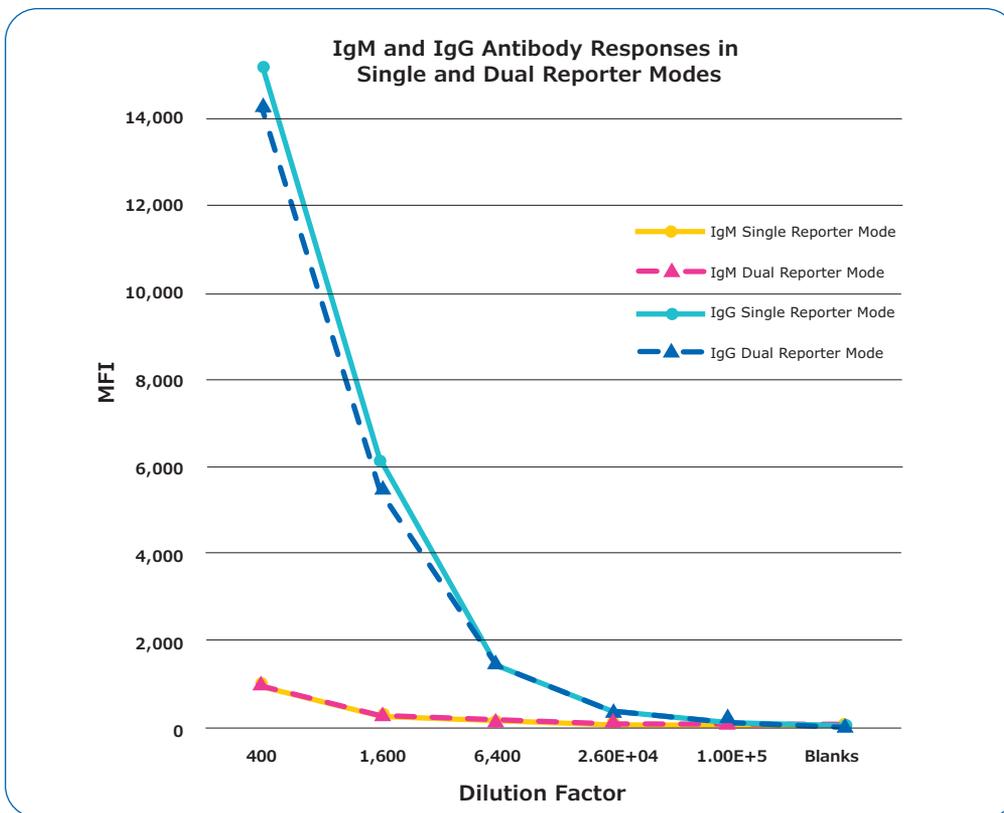


Figure 4: Equivalent signal in both single and dual reporter modes. Phycoerythrin-labeled IgM detection antibody and streptavidin-Super Bright 436 + biotinylated IgG detection antibody were used to measure SARS-CoV-2 N antigen-specific IgM and IgG in single and dual reporter modes. When run together, no interference was observed between the dyes and MFI values were equivalent.

For Research Use Only.
Not For Use In Diagnostic Procedures.

Specifications

Performance	xMAP® INTELLIFLEX	xMAP® INTELLIFLEX DR-SE
Multiplexing Capability	Up to 500 individual analytes per well	Up to 500 individual analytes per well Up to 2 parameters per analyte
Typical Dynamic Range	≥ 5.5 logs	≥ 5.5 logs (RP1) ≥ 4.5 logs (RP2)
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 (15 psi maximum)	
Sample Injection Rate	2 µL/sec	
Sample Uptake Volume	10–200 µL	
Optics		
Lasers	1 Classification laser 1 Reporter laser	1 Classification laser 2 Reporter lasers
Classification Laser Excitation	638 nm	
Reporter Laser 1 Excitation	532 nm	532 nm (RP1) 405 nm (RP2)
Detector	565–585 nm	565–585 nm (RP1) 421–441 nm (RP2)

DR-SE = dual reporter side eject

Ordering Information

Product Description	Cat. No.
xMAP® INTELLIFLEX RUO System	INTELLIFLEX-RUO

Includes:

- 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 DR-SE	INTELLIFLEX-DRSE
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Includes:

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- xMAP® INTELLIFLEX Software (Installed)
- xMAP® INTELLIFLEX Quick Guide
- xMAP® INTELLIFLEX Performance Verification Kit
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- 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

Ancillary Products	
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

Product Description	Cat. No.
Instrument Services	
Platinum Service	IFLEX-PLATINUM
Gold Service	IFLEX-GOLD
Platinum Service (DR-SE model)	IFLEX-DRSE-PLAT
Gold Service (DR-SE model)	IFLEX-DRSE-GOLD
Validation Services	
IQ/OQ with Installation	VP-IFLEX-IQOQ
Yearly OQ	VP-IFLEX-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

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64293 Darmstadt, Germany

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