

Luminex®

xMAP INTELLIFLEX® Systems

Technology You Trust. Versatility You Want.



Proven Performance of xMAP® Technology with Innovative Features to Advance Research.

xMAP INTELLIFLEX® is the only compact, flow-based, multiplex platform that combines the proven performance of xMAP® Technology with modern features to enhance performance, empower assay development innovation, and simplify your user experience. No other multiplex platform combines low- and high-plex capabilities, quick time to reliable results, and the ability to simultaneously acquire data for two parameters per analyte simultaneously.

xMAP INTELLIFLEX Systems offer:

- **A Broad Dynamic Range** – Avoid repeat testing due to out-of-range values with the widest dynamic range of any xMAP platform.
- **More Data from Each Target** – Acquire double the data for each analyte with the new second reporter channel, saving time and precious sample.
- **A Compact Footprint** – Reduce lab bench requirements with a compact footprint that features an embedded PC and a touchscreen user interface.
- **Intuitive and Flexible Software** – Quickly master the platform with easy-to-use software that empowers you to optimize workflows, gather performance insights, and export data into common analysis tools.
- **Commercially Available Kits and Custom Assays** – Experience the versatility of xMAP Technology with an open architecture design, enabling you to choose from the most extensive menu of commercially available kits and design your own assays.
- **Rich Compliance Features** – An optional Electronic Records Compliance module enables electronic signatures, enhanced audit trails, and other features to support 21 CFR Part 11 and Annex 11 compliant workflows.
- **Robust Integration Support** – Built to meet modern network and security expectations, xMAP INTELLIFLEX is easy to integrate into your IT environment. Additionally, an optional Automation module enables access to a modern REST API, for rapid integration into automated environments.

Optimize Workflows

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® plate layout screen.

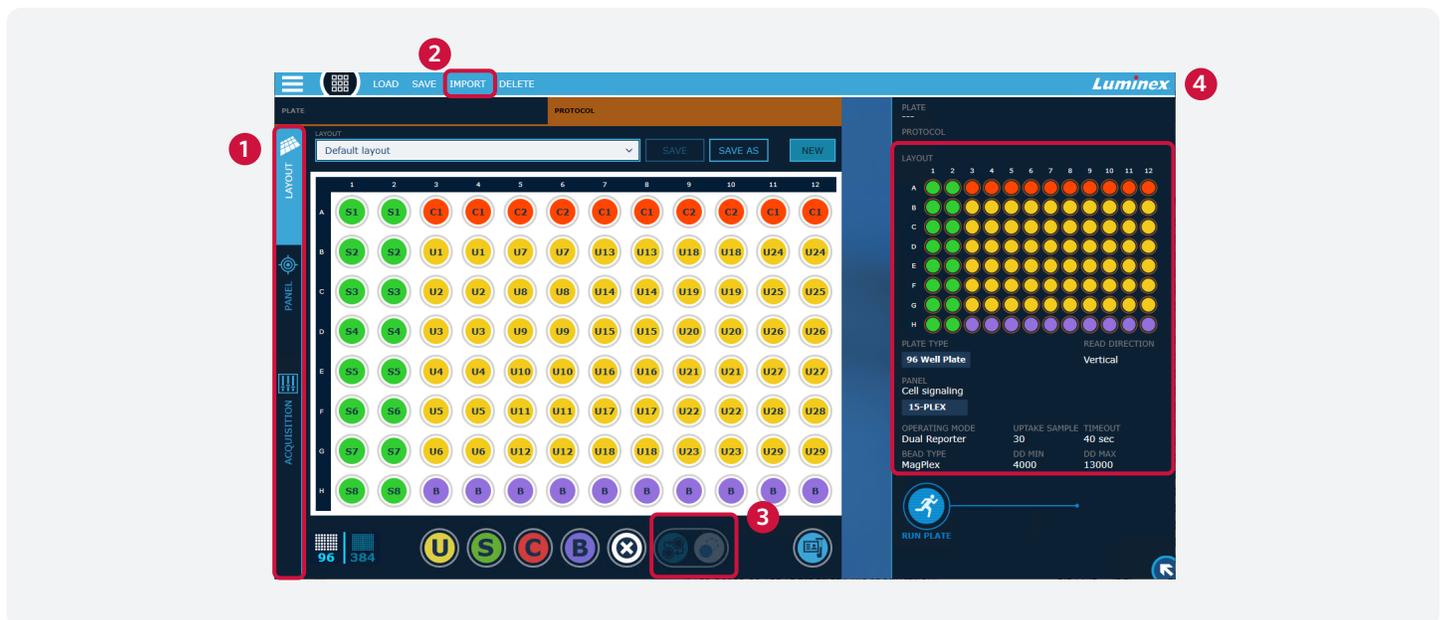


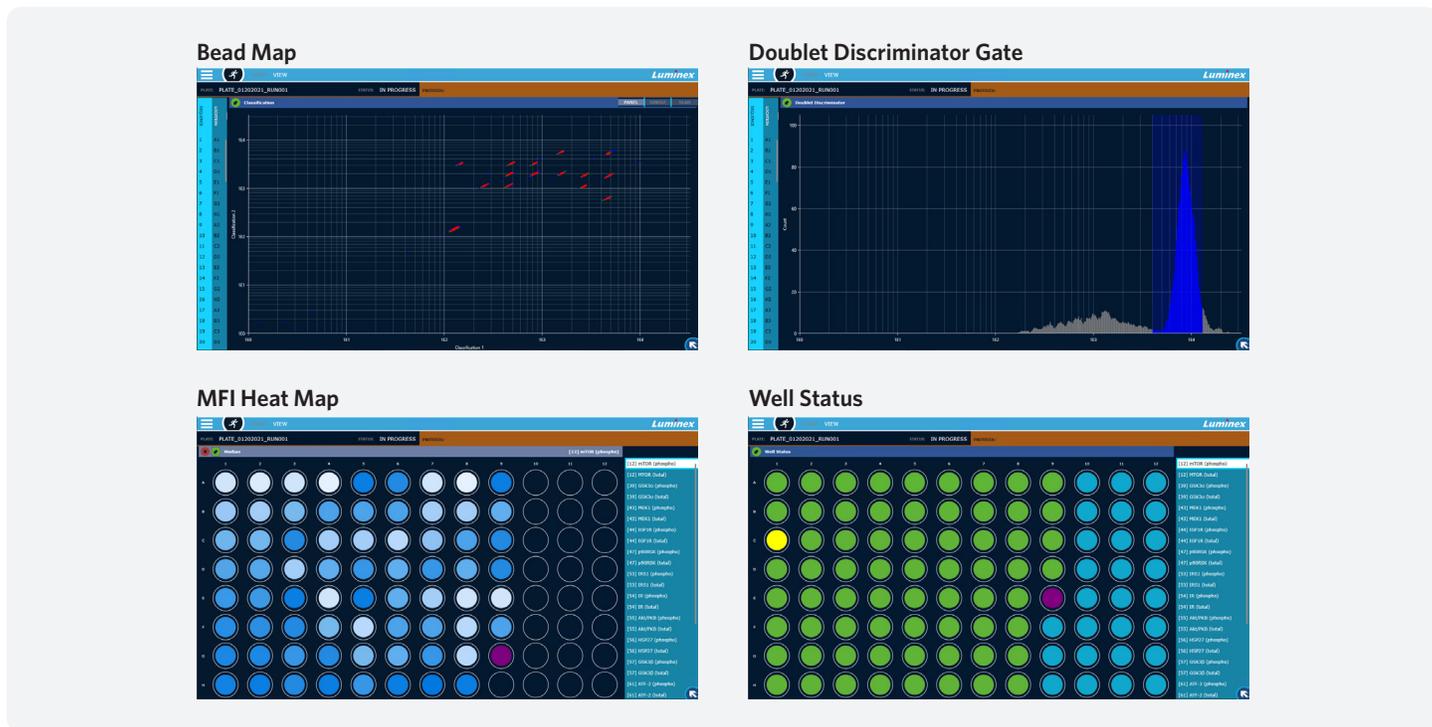
Figure 1. xMAP® INTELLIFLEX exemplary layout controls:

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.

Gather Performance Insights at a Glance

Quickly navigate between multiple data types for comprehensive, real-time run monitoring. **Figure 2** presents examples of viewable data types.

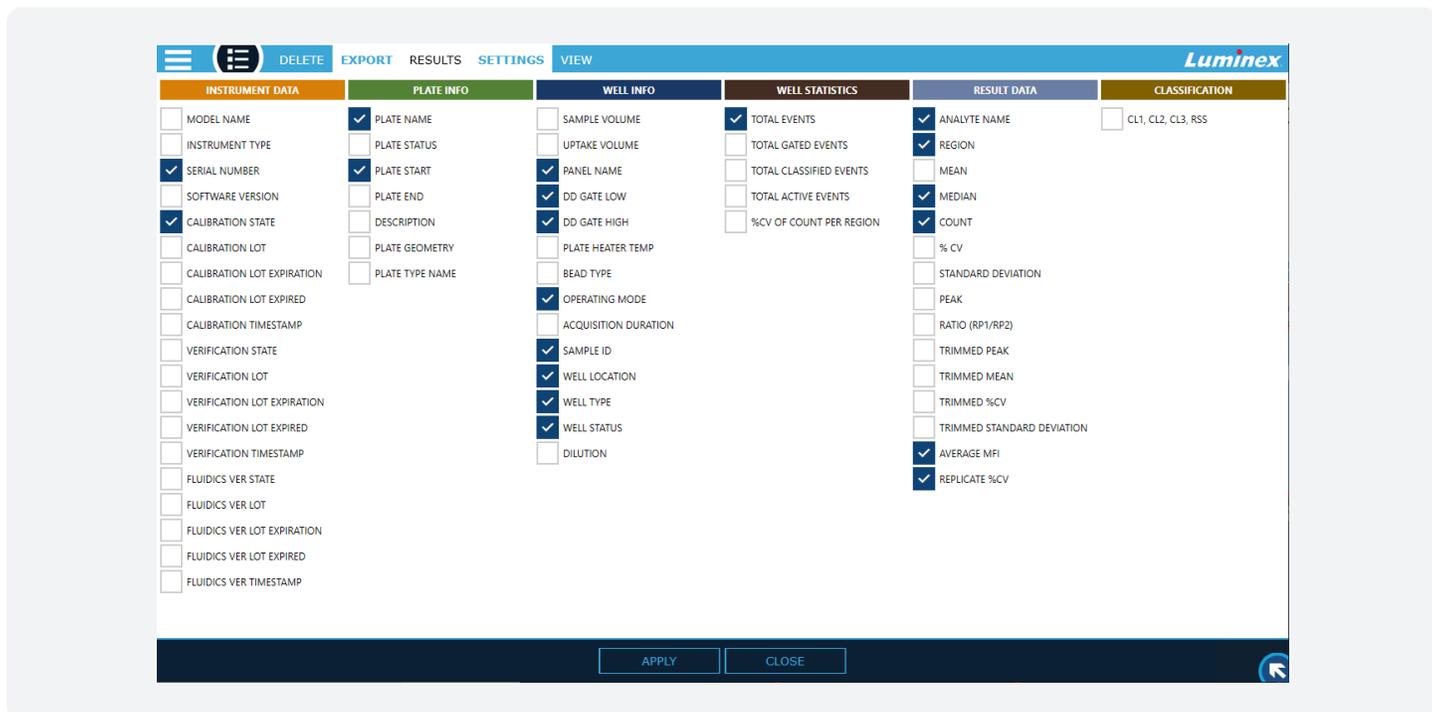
Figure 2. xMAP INTELLIFLEX® run monitoring data examples.



Easily Export Data for Analysis

Export results in three file formats: An xPONENT(R)-style CSV format is compatible with existing xMAP(R) data analysis tools. A new xMAP INTELLIFLEX(R) CSV is simple and flexible, allowing you to customize the contents of the exported dataset (**Figure 3**). A new XLS format provides both the customized dataset and relevant audit log entries.

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

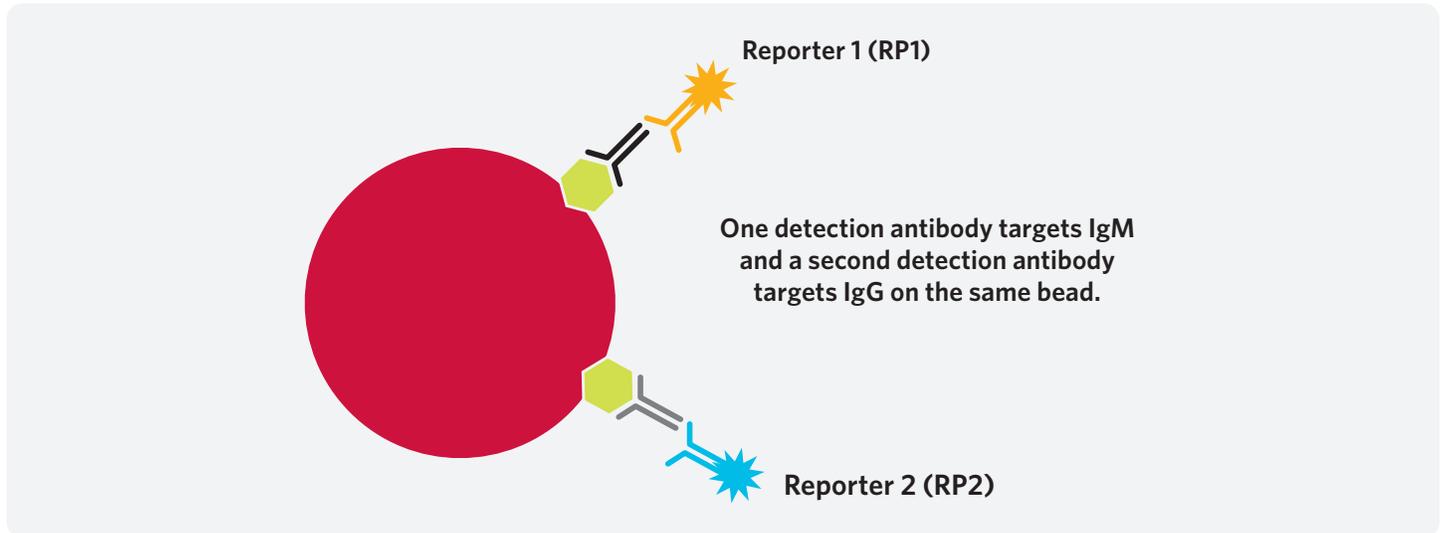


More Data from Each Target

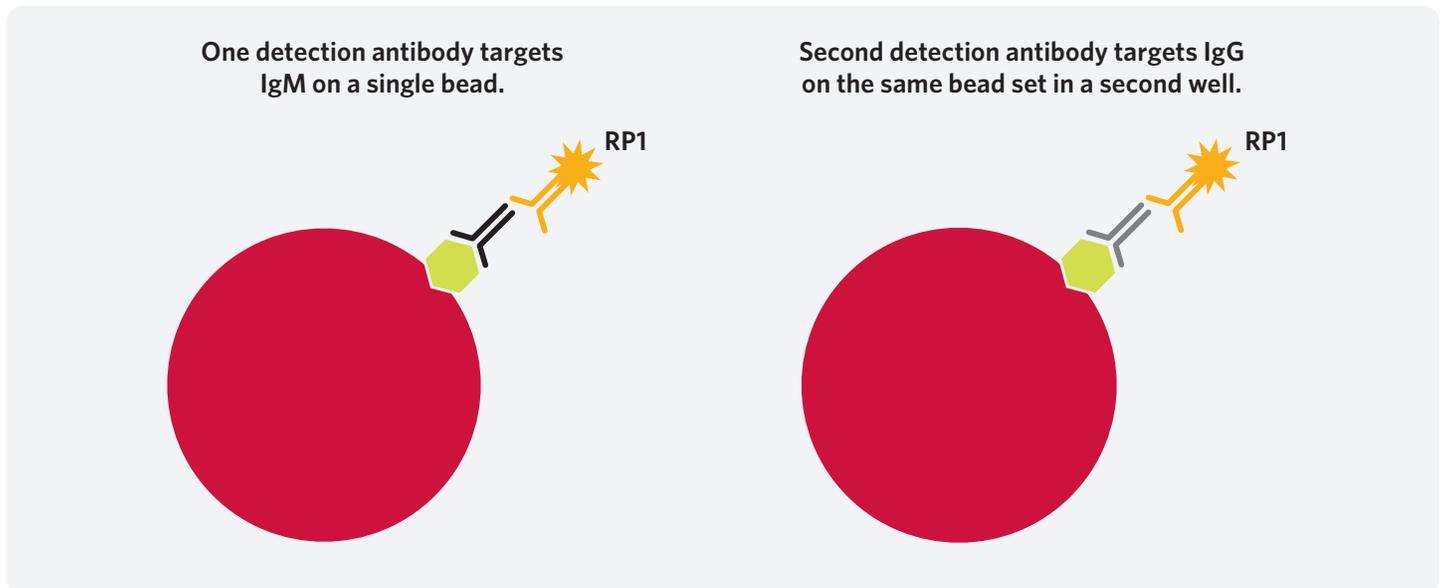
With the addition of a second reporter channel, you can acquire data about two parameters per target protein or nucleic acid, saving time and precious sample. This feature is ideally suited for measuring multiple isotypes or configurations targeting the same antigen.

Serological Assay

Two Reporter Channels (Dual Reporter)



One Reporter Channel (Traditional Single Reporter)



Key



Figure 4. Equivalent signal in both single and dual reporter modes.

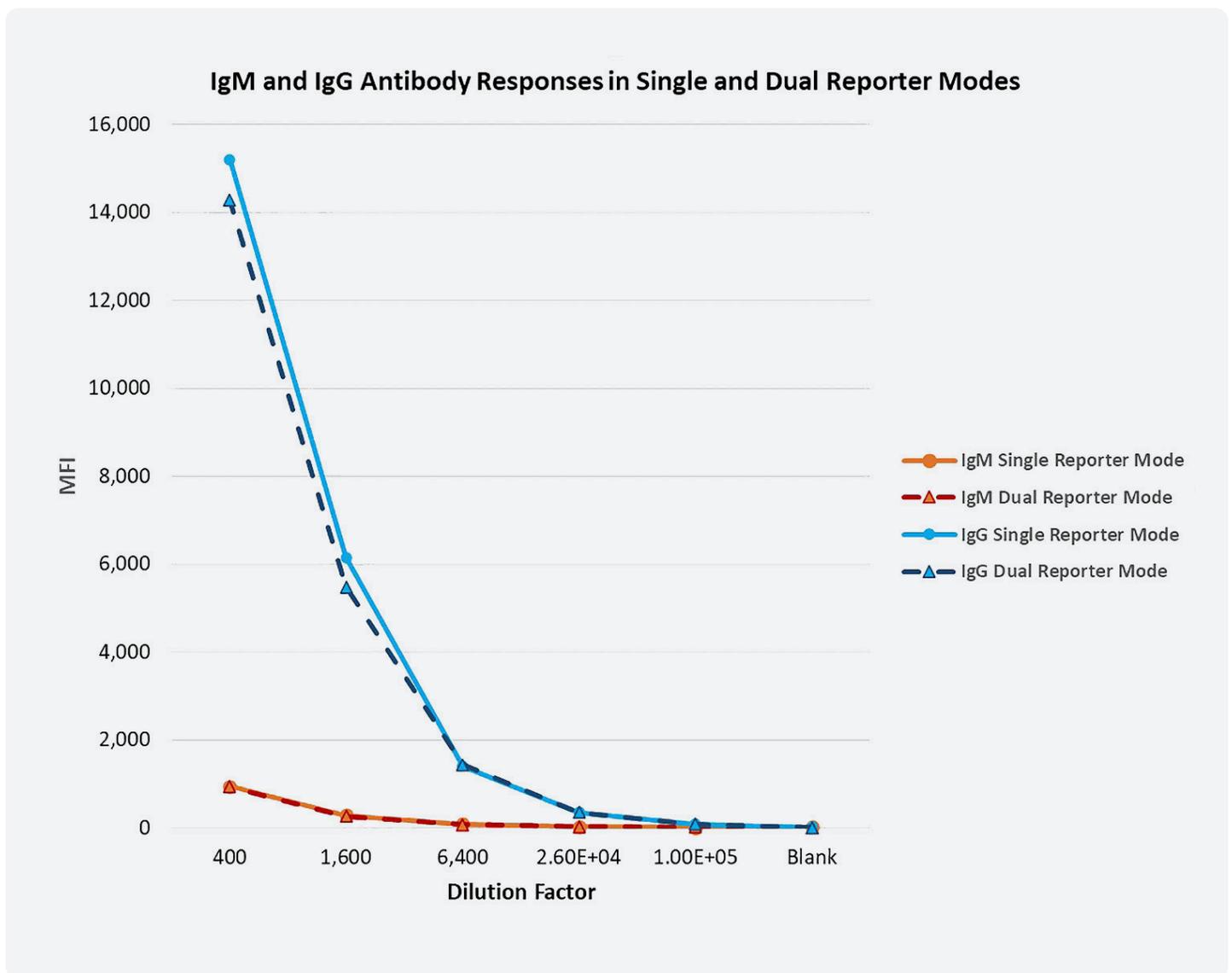


Figure 4: Equivalent signal in both single and dual reporter modes. Phycoerythrin-labeled IgM detection antibody and streptavidin-Super Bright 436 + biotinylated IgG detection antibody were used to measure SARS-CoV-2 N antigen-specific IgM and IgG in single and dual reporter modes. When run together,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

Specifications

xMAP INTELLIFLEX is available in two models with the following specifications:

	xMAP INTELLIFLEX® RUO	xMAP INTELLIFLEX® DR-SE RUO*
Performance		
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 ≥4.5 logs (second reporter channel*)
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 Warm-Up	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	1 Classification laser 2 Reporter lasers*
Classification Laser Excitation	638 nm	
Reporter Laser 1 (RP1) Excitation	532 nm	
Reporter Laser 2 (RP2) Excitation*	n/a	405 nm
RP1 Detector	565–585 nm	
RP2 Detector*	n/a	421–441 nm

*The second reporter channel is only available in the xMAP INTELLIFLEX® DR-SE RUO model.

Ordering Information

Instruments

Product	Part Number
xMAP INTELLIFLEX® RUO & xMAP INTELLIFLEX® DR-SE RUO Includes: <ul style="list-style-type: none">• 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	INTELLIFLEX-RUO, INTELLIFLEX-DRSE-RUO

Optional Software Modules

Product	Part Number
xMAP INTELLIFLEX® Compliance Module for 21 CFR Part 11 and Annex 11, RUO	IFX-CFR2.0-RUO
xMAP INTELLIFLEX® Automation Module, RUO	IFX-AUTO2.0-RUO

Reagents

Product	Part Number
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

Check out the xMAP® Kit Finder to find xMAP-based immunoassay kits from our Partners: [kitfinder.luminexcorp.com/](https://www.kitfinder.luminexcorp.com/).

Ordering Information

Accessories and Spare Parts

Product	Part Number
Syringe Cylinder with Seal, 500 µL	CN-0013-01
Sheath Filter with Quick Disconnect	CN-0010-01
Sample Probe Needles	CN-0221-01
Sample Probe Height Adjustment Kit	CN-0263-01
Power Cable, Country-Specific	CN-PXXX-01*
Preventive Maintenance (PM) Kit, 6 Months	CN-0458-01
Off-Plate Reagent Block	CN-0514-01
Heater Block for 96-Well Microtiter Plates	CN-0224-01
Heater Block for 384-Well Microtiter Plates	CN-0223-01

*XXX is a country-specific part number. For more information, contact Luminex Technical Support.

Instrument Services

	xMAP INTELLIFLEX® RUO	xMAP INTELLIFLEX® DR-SE RUO
Platinum Service	SLA-IFLEX-PLATINUM	SLA-IFLEXDRSE-PLATINUM
Gold Service	SLA-IFLEX-GOLD	SLA-IFLEXDRSE-GOLD
Bronze Service	SLA-IFLEX-BRONZE	SLA-IFLEXDRSE-BRONZE

Validation Services

	xMAP INTELLIFLEX® RUO & xMAP INTELLIFLEX® DR-SE RUO
IQ/OQ with Installation	VP-INTELLIFLEX-IQOQ
Yearly OQ	VP-INTELLIFLEX-OQ

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