

# xMAP INTELLIFLEX® System Quick Guide

## 1

### **Calibrate the Sample Probe Height**

- Select = and navigate to MAINTENANCE > PROBE HEIGHT.
- 2. Select **NEW** or choose a saved plate from the **SAVED PLATES** drop-down.
- 3. If **NEW** was selected, select 🚾 or 🎫

If needed, place the appropriate alignment tool in the well.											
96-well or 384-well hard bottom plate	None										
96-well conical (V-bottom) plate	None										
96-well filter or mylar bottom plate	One 5.08 mm alignment disk										
384-well filter or mylar-bottom plate	One alignment sphere										

- 4. Select in the lower right-hand corner of the screen to eject the plate carrier.
- 5. Place the off-plate reagent block on the plate carrier and place the plate on the plate holder.
- 6. Place a strip well in the middle row of the off-plate reagent block.
- 7. Verify there is no liquid in the plate, strip well, or off-plate reagent block.
- 8. Select 2 to retract the plate carrier.
- Select AUTO CALIBRATE in the PLATES, RESERVOIRS, and OFF-PLATE STRIPS sections.

### 3

#### **Define the Plate**

- 1. Select and navigate to PLATE CONFIGURATION.
- Select LAYOUT and define the well locations for unknowns, standards, controls, and backgrounds.
- 3. Select **PANEL** and define the bead regions to be analyzed.
- 4. Select **ACQUISITION** and define the acquisition settings.
- Select RUN PLATE to make the run pending, or select SAVE > PLATE to save the plate for future use.

**NOTE:** If the Dashboard is fully expanded, select the System Status circle once to minimize its configuration.

## **Run the Daily Routines**

- Select 
   ■ and navigate to
   MAINTENANCE > ROUTINES.
- 2. Select Daily Start-up or Daily Shut-down.
- 3. Select (a).
- Fill the reservoirs 3/4 full with the required reagents, as shown in the software.
- 5. Select , then .

### 2

#### Calibrate and Verify the System

Calibrate the system at least once a week and run performance verification daily. After calibration, always perform verification. Fluidics can be run as part of the cal/ver procedure, or as a standalone procedure.

**NOTE:** Ensure the lasers are warmed up.

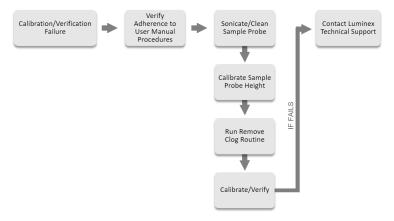
- Select = and navigate to MAINTENANCE > CAL/VER.
- 2. Select the RUN check boxes for CALIBRATION, PERFORMANCE, and FLUIDICS.
- Choose the correct lots from the CALIBRATION, PERFORMANCE, and FLUIDICS drop-downs.

**NOTE:** Select IMPORT KIT > SCAN to import the lots, if necessary.

- 4. Select 

  .
- 5. Place a strip well in the top row of the off-plate reagent block.
- 6. Vortex the calibration and performance verification reagents for approximately 10 seconds.
- 7. Fill the reservoirs 3/4 full of deionized water (DI water) and 70% isopropanol or 70% ethanol, as shown in the software.
- 8. Add six drops of each reagent into the designated wells, as shown in the software.
- 9. Select , then .

#### Figure 1: Calibration and Performance Verification Failure Flowchart



xMAP INTELLIFLEX® Maintenance Log												MONTH:							YEAR:												
Day of the Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30 3	 31
Daily																															
Warm up laser																															
Run daily start-up																															
Verify the system																															
Check fluid levels																															
Run daily shut-down																															
Weekly																															
Perform visual inspection																															
Calibrate the system																															_
Clean sample probe																															
Run clog removal																															
Run weekly maintenance																															
Monthly																															
Clean exterior surfaces																															_
<b>Semi-Annual Maintenance</b>													As	s Ne	ede	d M	aint	ena	nce												
Replace HEPA filter	Yes	s [		No (		lf	Yes,	. Dat	e:				Re	place	e shea	ath fi	ilter				Yes			10 [		If Y	es, D	ate: _			
Replace syringes	Yes	s [		No (		lf	Yes,	. Dat	e:																						
Replace sheath-in tubing	Yes	s [		No		lf	Yes,	, Dat	e:																						

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This document is a supplemental tool and consistent with the instructions for use in the  $xMAP^{\otimes}$  INTELLIFLEX User Manual (89-00002-00-709). Please refer to the user manual for additional information.

All instrument documentation may be updated without notice. For the latest version of manuals, quick guides, release notes and other documents, please visit www.luminexcorp.com/intelliflex or contact Luminex Technical Support at 1-877-785-2323 or by email at support@luminexcorp.com.

