Quick Start Guide

Moxi GO™ II

Before you Begin:

Your Moxi GO II comes with a partial battery charge and must be run plugged into the supplied power adapter for charging and running tests.

Required Materials:

- Cassettes and diluent (e.g. PBS).
- Biological cell sample.
- Pipette and tips for 60µL aliquot.

Cassette Specifications:

- Cassette size range: 3 - 27µm particles
- Concentration range:
  - * Counts:
    10,000 to 1,750,000 cells/ml
  - * Optimal Fluorescence Sensitivity:
    100,000 - 500,000 cells/ml

Sample Prep Considerations:

- ***Solution Conductivity***: Cells must be suspended in standard, conductive, lab media (e.g. PBS or equivalent)
- ***Single-Cell Suspensions***: Cells need to prepared as single cell suspensions. Clusters/aggregates should be broken apart with mechanical trituration and/or protease disociation (e.g., Accutase). Samples with large extracellular debris particles or aggregates should be strained/filtered before running.
- ***Fluorescent Labeling/Stains:*** The Moxi GO II uses a 488nm laser with 525/45nm (e.g. FITC) and EITHER 561nm LP (e.g. R-PE, PI, 7-AAD, PE-Cy5) OR ~650nm/LP (e.g. PI, PE-Cy5) emission filters.
- ORFLO approved/kits reagents, and protocols are strongly recommended.

Data Transfer:

FCS 3.1 test data is available for transfer via USB. To transfer data

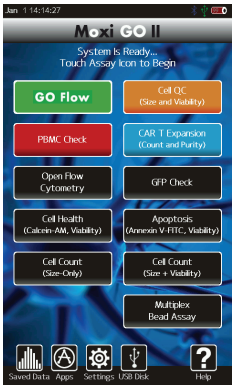
- Plug the unit into a PC/Mac with supplied cable.
- Touch the "USB Disk" icon on the Home Screen.
- Touch the "Connect" icon.
- The unit will appear as an external, flash drive.

User Manual:

An electronic copy of the complete Moxi GO II user manual can be found at www.GEMBIO.com on the Moxi GO II product page (Under Products | Cell QC & Analysis)

1) Turn Moxi GO II ON

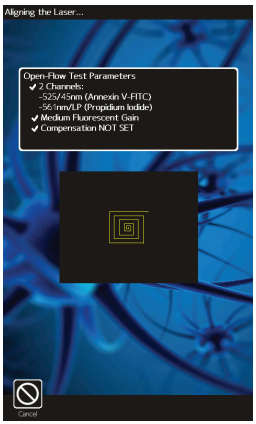
2) Touch Desired Assay



3) Open the Door. Insert Cassette. Close Door.

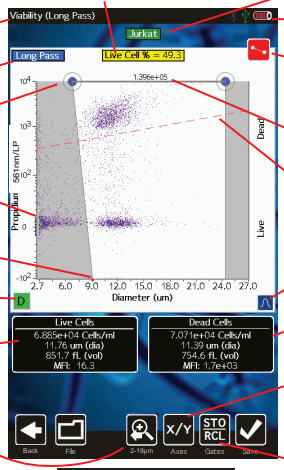
(Note: on older models, tray lever needs to be depressed while inserting the cassette)

4) Auto Laser Alignment. Please Wait.



5) Pipette 60uL of Stained Sample Into the Cassette. Close Door. Test Begins.

6) Data Summary



Application

PMT Displayed

Size Gates (Blue)

Greyed Noise Region

Toggle to Angle Gate

Fluorescent Gain Setting

Lower Gated Population Results

Press to Change Size Scale Range: 2-26, 2-18, 2-10 µm

Cell % Results

Touch to Rename File

Battery/Charging Indicator

Toggle Between Size (Blue) and Fluorescent (Red) and Noise (Yellow) Gates.

Total Count Between Size (blue) Gates

Fluorescent Gate (Red)

Turn on Histogram Overlays

Upper Gated Population Results

Select to Change Axis Display: PMT vs Size, Size/ Fluorescence Histograms, PMT vs PMT

Store/Recall Gate Locations

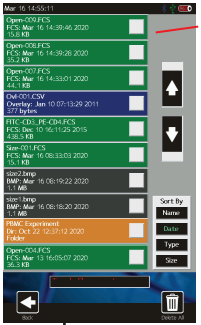
Dot Plot Results

ORFLO

Quick Start Guide

MoxiGO™ II

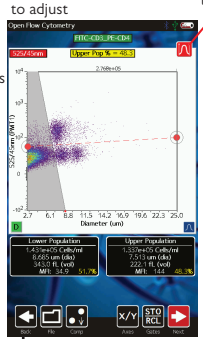
Opening, Viewing, Comparing, and Printing Data:



File Colors
Green = Tests
Blue = Overlays
Black = BMPs
Orange = QC batches/ directories

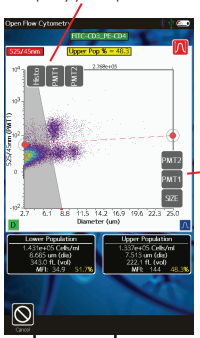
Touch and drag gates to adjust

Touch red icon to toggle gate modes



X/Y

Specify y-axis parameter



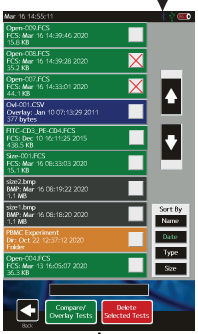
Specify x-axis parameter

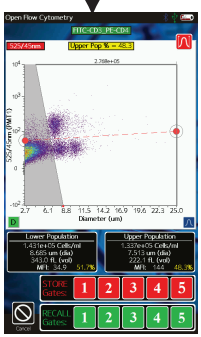
Test Comparisons/Overlays

STO RCL

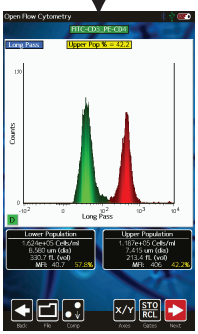
Histo PMT2

PMT2 PMT1

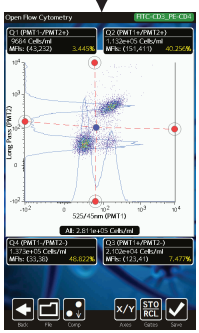




Touch number to store/recall gates into/from memory



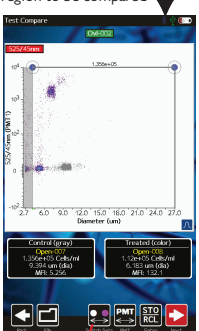
Swipe up/down on histogram to scale



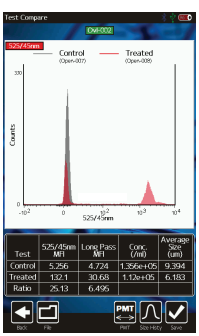
Touch & drag gates to adjust. Note: You can tap blue dot & tap to the side of it to move it with better visibility.

Compare/ Overlay Tests

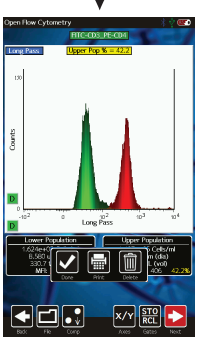
Use blue size gates to define region to be compared



"Switch Sets" toggles the "control" and "treated" set designations



Print Screen (export to .bmp file)



Exact screenshot saved as a .bmp file on the data disk (access through USB connection to the computer)

Complete User Manual can be downloaded at www.GEMBIO.com

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