

Quick Start Guide

Moxi^Z Mini Automated Cell Counter

Before you Begin:

Your Moxi Z comes with a partial charge. The system can be run either unplugged or plugged. Use the provided power adapter to recharge it.

Required Materials:

- Moxi Z cassettes
- Biological cell sample or beads
- Pipette and tips for 75µL aliquot

Cassette Specifications:

- Type S cassettes:
 - * Size range : 3 - 26µm particles
 - * Concentration range: 3,000 - 1,750,000 cells/ml
- Type M cassettes:
 - * Size range : 4 - 34µm particles
 - * Concentration range: 3,000 - 500,000 cells/ml

Sample Prep Considerations:

- **Dilution Media:** Cells must be suspended in standard, isotonic lab media (e.g. PBS or equivalent)
- **Single-Cell Suspensions:** Cells need to be prepared as single cell suspensions. Clusters/aggregates should be addressed with protease dissociation and pipetting.

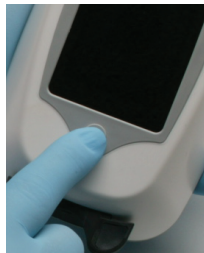
User Manual:

A PDF of the Moxi Z user manual can be found at ORFLO.com ("Resources" | "User Manuals" links).

Data Transfer:

Data can be transferred via the USB power cable. Plug the system into your computer's USB. A .csv file exists for every test run (reboot system to refresh data).

1) Turn Moxi ON



2) Depress tray and insert cassette



3) Load 75µL sample



4) Touch Screen to Start



Touch here most tests

Touch here for cells <8µm dia. (SPM)

5) Data Summary

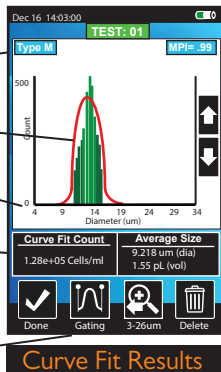
Cassette Type

Curve Fit

Cell Size Scale

Count (within curve fit or gated area)

Press for Gating Mode



Touch



Gating

Touch



Curve Fit

MPI - Moxi Population Index

Touch to Move Gates

Adjust Count Scale

Population Histogram

Avg. Cell Size (dia. & vol.)

Press to change Scale:

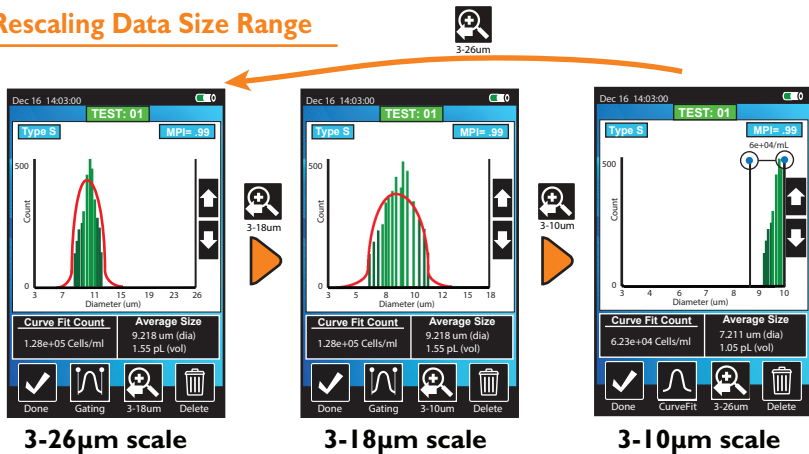
- M: 4-34, 4-26, 4-18, 4-10µm
- S: 3-26, 3-18, 3-10µm



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Rescaling Data Size Range



3-26µm



3-18µm



3-10µm

3-26µm scale

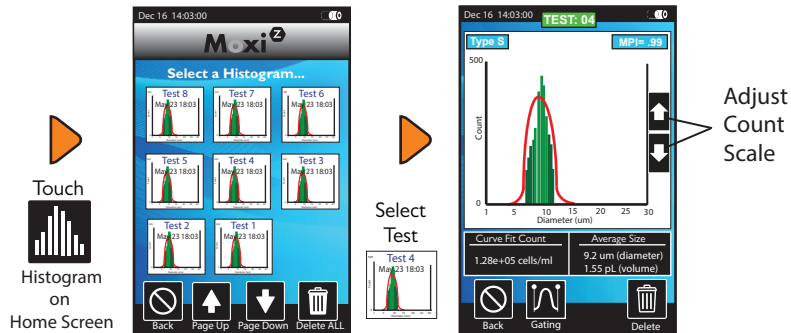
3-18µm scale

3-10µm scale

Notes:

- Whatever scale the test is saved at, becomes the starting scale for the next test ("sticky setting")
- If the curve-fit can't be applied after zooming, system will automatically revert to gating mode
- Only points in display range are counted (larger particles are not)
- Resolution increases with scaling (constant 1200 point binning)
- Rescale is only available following the acquisition (before saving)
- Type S example shown (Type M scales from 4-34, 4-26, 4-18, and 4-10µm)

Saved Histograms



Touch
Histogram
on
Home Screen

Select
Test

Adjust
Count
Scale

Transfer Data to PC



- 1) Plug USB A side of cable to PC
- 2) Plug mini USB side of cable to Moxi Z
- 3) Power on Moxi Z
- 4) Drive will appear as flash drive on PC
(might take a few seconds)