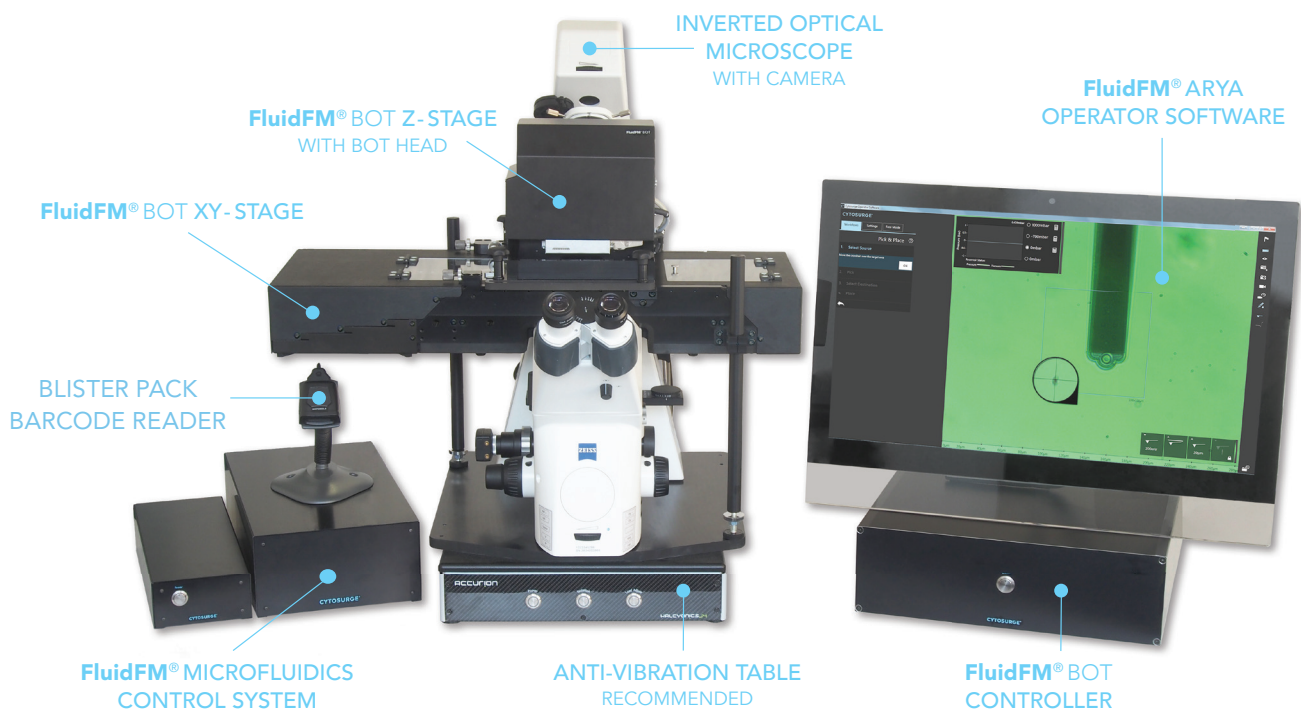


FULLY INTEGRATED SYSTEM SOLUTION.

## FluidFM® BOT



## ONE PLATFORM, UNIFIED CONTROL.

The FluidFM BOT system by Cytosurge provides the most comprehensive FluidFM experience available today. With the FluidFM BOT, users can benefit from extended automation and a revolutionary sample positioning system. The FluidFM BOT supports the complete range of FluidFM applications, unified in a standalone system. From single cell biology to material sciences, give your research applications the edge with our flagship product.

Redesigned from the ground up, the FluidFM BOT system takes FluidFM technology to the next level. A completely new sample stage design combined with a fully automated measurement head allows new levels of experimental versatility, speed, and precision for FluidFM applications. The revolutionary stage technology employed in the FluidFM BOT system sets new benchmarks for long-range sample positioning and opens up a new dimension in your experimental design.

**1 nm**

XY-SENSOR RESOLUTION

**240x74 mm**

SAMPLE AREA

**0.1 nm**

Z-SENSOR RESOLUTION

**60 mm**

Z-RANGE

## QUALITY THROUGH AUTOMATION.

The FluidFM BOT is engineered to work seamlessly together with standard inverted light microscopes. Every aspect of the instrument has been carefully devised to give you access to a whole world of new applications for your research in life sciences, material sciences, physics, and beyond.

The FluidFMBOT system meshes well with your existing lab routines. Compatibility with standard multiwell plates, petri dishes, and microscopy slides ensures proper integration with existing downstream analysis techniques.

By supporting two multiwell plates, the system boosts your productivity by minimizing laborious sample swapping. In combination with fully automated probe exchange and probe washing features, the system allows for a tenfold increase in throughput for most established FluidFM applications. By minimizing manual intervention during measurements, all experiments are executed in a clean and precise fashion and your samples remain immaculate for long periods. High levels of automation ensure maximum reproducibility of your results, even with different operators.

Thanks to the sophisticated XY-sample-positioning technology, the FluidFM BOT gives you access to vast sample areas with unmatched repositioning precision at the nanometer scale over the full range.

The revolutionary Z-positioning stage means highly precise force measurements over distances of up to 6 cm are now possible. Previously challenging and complex studies such as cell-cell interaction are simple thanks to the unmatched measurement range.

The FluidFM BOT allows you to focus on your experimental design instead of limiting instrument specifications. A high level of automation coupled with intelligent and intuitive instrument operation allows many data points to be gathered within a short timeframe.

Collect strong statistics and increase confidence in your experimental results with the FluidFM BOT. Automation, functional design, and intuitive operation via the award winning FluidFM ARYA operator software make the FluidFM BOT system the ideal choice for your cutting-edge research applications.

### EASY.

- Intuitive point and click interface
- No prior knowledge required
- Works with standard multiwell plates
- Cells can be approached quickly and automatically over the entire sample area

### FAST.

- Automatic loading and washing of FluidFM probes
- Up to tenfold throughput for established FluidFM experiments
- Simultaneous use of several sample containers – no time lost due to swapping containers

### AUTOMATED.

- Sound statistics in a short time
- Clean experiments – no manual intervention is necessary
- High reproducibility through automation, even among different users
- Highly accurate force curves, especially for mammalian cells (100+  $\mu\text{m}$ )

### CONTACT US.

We offer complete support for our customers and distributors. Please visit the Cytosurge Help Center in order to access the FluidFM® user community. [www.fluidfm.com](http://www.fluidfm.com)

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