

BioFlux™ EZ

The **affordable** integrated solution for automated biological flow cell experiments

Superior Performance in an Affordable Package:

Same great BioFlux benefits : The BioFlux EZ maintains the simplicity of operation and rapid experimental setup that are hallmarks of the entire BioFlux product suite. Protocols can be set up in minutes and saved for future use. All data on experimental runs is stored automatically.

Simple set-up and operation: The BioFlux EZ is designed for simple experiment execution in any lab. The system is easily integrated with most inverted microscopes for real-time imaging.

A rich set of options: The base BioFlux EZ package includes the EZ Controller, Pressure Interface, and BioFlux Software. A broad range of options is available to maximize utility:

- High resolution camera with automated image capture
- Environmental control to maintain gas composition
- Automated heater

Fully Upgradeable: The BioFlux EZ is limited to running 6 simultaneous flow cell experiments and does not include 2-phase flow (see back page for system comparison chart). However, the system is fully upgradeable to a BioFlux 200 or BioFlux 1000 should your future research require these capabilities.

All the benefits of the industry-leading BioFlux cell analysis platform, now in a configuration every lab can afford.

Need to run flow cell experiments, but don't need 2-phase flow or high throughput? The BioFlux EZ is the solution; it provides all the benefits of the industry standard BioFlux system, at a price point similar to a "home brew" flow cell setup.

The BioFlux system is the established standard for a wide range of complex cellular interaction assays. Now, the BioFlux EZ delivers the capability to perform complex modeling of the in vivo cell environment, in a package which every lab can afford.

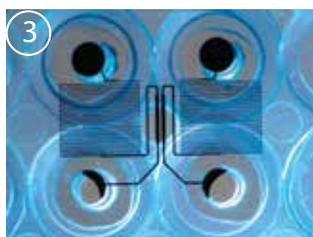
BioFlux EZ System Overview:

The heart of the BioFlux EZ system is identical to the BioFlux 200 and the BioFlux 1000 systems: automated control of flow cell experiments with Fluxion's unique WPM flow cell well plates. The BioFlux EZ can run up to 6 simultaneous flow cell experiments and is ideal for platelet aggregation, leukocyte adhesion, and biofilm analysis. As with all BioFlux systems, the EZ works with an inverted microscope and is compatible with fluorescence, brightfield, phase, and confocal imaging. User-friendly software automates experimental protocols and provides a powerful analysis package. Upgrade capabilities allowing for 2-phase flow and/or higher throughput make the BioFlux EZ the perfect choice for your functional assay research.



1. The Pressure Interface mounts on top of the BioFlux Plate and sits on an inverted microscope.

2. The BioFlux EZ Controller connects to the Pressure Interface and controls the experiment.



3. BioFlux Plates are well plates with integrated flow cells that can be loaded using pipettes or liquid handling workstations. The bottom of each flow cell is formed with a 180µm cover slip for optimal imaging.



4. BioFlux Software offers complete control over experimental conditions, including dynamic control over shear flow changes.



FLUXION

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BioFlux EZ Product Specifications

BioFlux EZ Controller:

Shear flow range: 0.5-200 dyne/cm²

Flow Control: Single-phase.

Multiple stream flow control requires BioFlux 200 or 1000.

Dimensions: 12" (W) X 13" (L) X 9" (H)

30cm (W) X 33cm (L) X 22cm (H)

Optional Temperature Control: ambient to 50°C (+/- 1°C)

Optional gas control

BioFlux Plate:

Plate Formats: SBS-standard well plates, pre-sterilized.

24-well BioFlux Plate: Not applicable. (Requires 2-stage flow controller available with BioFlux 200 or 1000. BioFlux EZ is fully upgradeable to these configurations)

48-well BioFlux Plate: 24 experimental channels, one input per channel

Throughput: up to 6 simultaneous experiments per plate

Imaging Surface: 180µm cover slip glass

Microfluidic channel dimensions: 350µm wide X 70µm tall

BioFlux Software:

Operating Modules: Manual, AutoRun Editor, AutoRun, Image Acquisition, Image Analysis

Operating system: Windows 2000 or XP

Memory: 1GB RAM

Available Hard Drive Space: 2GB

USB 2.0 Connection



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Ordering Information:

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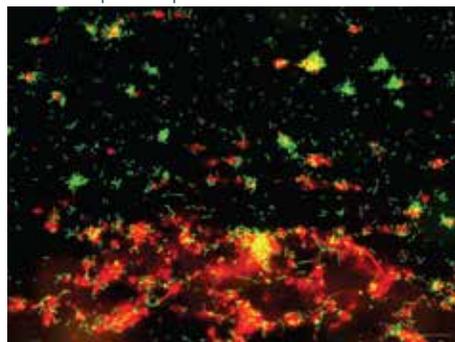
BioFlux System Comparison Chart

Choose the BioFlux system that meets your needs.

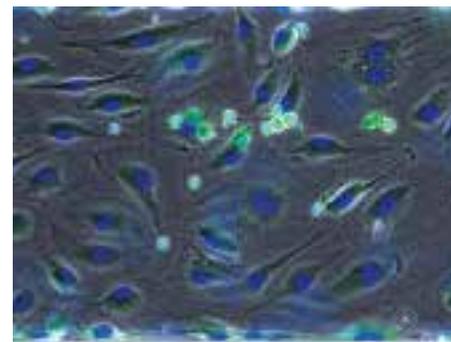
	BioFlux EZ	BioFlux 200	BioFlux 1000Z
WPM Plate Compatibility			
48-well Low Shear (0-20 dyne/cm ²)	✓	✓	✓
48-well High Shear (0-200 dyne/cm ²)	✓	✓	✓
24-well Plate (0-20 dyne/cm ²)	N/A	✓	✓
Maximum Number of Concurrent Assays	24*	96*	96*
Bidirectional Flow	✓	✓	✓
Shear Flow Range: 0.5-200 dyne/cm ²	✓	✓	✓
Air Filter: 0.2µm in-line filter	✓	✓	✓
2-Phase Flow Capability	N/A	✓	✓
Simultaneous, Intra-Plate Dual Flow Conditions	N/A	✓	✓
Temperature Control	optional	✓	✓
Environmental Control	optional	✓	✓
Pulsatile Flow	optional	optional	optional
Integrated Microscope	optional	optional	✓
Automated Stage	optional	optional	✓
High Resolution Camera	optional	optional	✓
BioFlux Montage Cell Analysis Software	optional	optional	✓

	Applications		
Platelet Aggregation	✓	✓	✓
Biofilm Formation	✓	✓	✓
Host/Pathogen Interactions	✓	✓	✓
Rolling/Adhesion	✓	✓	✓
Stem Cells	✓	✓	✓
Transmigration	✓	✓	✓
Chemotactic Migration	N/A	✓	✓
Wound Healing	N/A	✓	✓
Angiogenesis	N/A	✓	✓

*with multi-plate adapter



A Pseudomonas fluorescens biofilm grown at 2 dyne/cm² for 24 hours. Stained with a BacLite kit (Invitrogen) and imaged with a 20x objective.



A representative microscopic field following a mononuclear cell adhesion assay on primary human aortic endothelial cells.