The affordable integrated solution for automated biological flow cell experiments

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 One 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 One delivers the capability to perform complex modeling of the in vivo cell environment, in a package which every lab can afford.

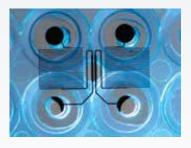
BioFlux One System Overview:

BioFlux[™]One

The heart of the BioFlux One system is identical to the BioFlux 200 and the BioFlux 1000z systems: automated control of flow cell experiments with Fluxion's unique WPM flow cell well plates. The BioFlux One can run up to 24 simultaneous flow cell experiments and is ideal for platelet aggregation, leukocyte adhesion, and biofilm analysis. As with all BioFlux systems, the BioFlux One works with an inverted microscope and is compatible with fluorescence, bright field, phase, and confocal imaging.

User-friendly software automates experimental protocols and includes an analysis package. Upgrade capabilities allowing for 2-phase flow and/or higher throughput make the BioFlux One the perfect choice for your functional assay research.





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

Superior Performance in an Affordable Package:

Same great BioFlux benefits:

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

- Heater
- Environmental control to maintain gas composition
- Pulsatile flow

Fully Upgradeable:

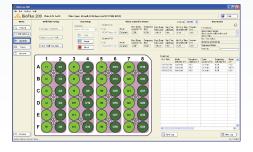
The BioFlux One is fully upgradeable to a **BioFlux 200** or **BioFlux 1000z** should your future research require these capabilities.



1600 Harbor Bay Parkway, #150 Alameda, CA 94502

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www.fluxionbio.com



BioFlux Plates are well plates with integrated

slip for optimal imaging.

flow cells that can be loaded using pipettes or liquid handling workstations. The bottom of each flow cell is formed with a 170µm cover

FLUXION

BioFlux One Product Specifications

BioFlux One Controller	
Shear flow range	0.1-200 dyne/cm2
Flow control	Single-phase. Multiple stream flow requires BioFlux 200 or 1000z
Dimensions	12"(W) X 13"(L) X 9"(H) 30cm (W) X 33 cm(L) X 22cm(H)
Example Applications	Biofilm Formation, Host/Pathogen Interactions, Cell Adhesion, Leukocyte Rolling, Platelet Aggregation, Stem Cell Differentiation
System upgrades	Heater, environmental gas control, and pulsatile flow
BioFlux Plate	
Plate format	48-well SBS-standard plates, pre-sterilized. Each plate includes 24 experimental flow channels
Plate construction	Plates are available with these materials: 170µm coverslip glass bottom, all PDMS construction, and user–definable surface (user attaches desired material using supplied adhesive layer)
Throughput	Up to 24 simultaneous experiments per plate
Microfluidic channel dimensions	350µm wide X 70µm tall (for glass bottom and PDMS plates)
BioFlux Software	
Operating modules	Manual, AutoRun Editor, AutoRun, Image Acquisition
Operating system	Windows 10
Memory	4 GB RAM
Available Hard Drive Space	2 GB
Cables	USB 2.0 Connection

Ordering Information

Description	Part Number
BioFlux One with 48-well interface and vapor trap-no heater included. Includes software and accessory kit.	950-0146
Temperature control upgrade for BioFlux One	950-0106
Environmental control upgrade. Enables assays under hypoxia or alternative gas. Enables use of premixed CO2	950-0035
BioFlux pulsatile flow module upgrade. Provides capability to mimic cardiovascular system flow	940-0020



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Typical Applications:

- Biofilm formation
- Host-pathogen interactions
- Cell adhesion
- Leukocyte rolling
- Platelet aggregation
- Stem cell differentiation

Ordering Information:

To request a quote or to place an order: sales@fluxionbio.com