

BioFlux™ DCIS

Digital Cell Imaging System for live cell analysis under shear flow

A complete solution for high content screening under shear flow:

Higher biological relevance:

The BioFlux DCIS provides controllable shear flow for high content screening experiments. Bridges the gap between in vitro and in vivo screening and research.

Fully-integrated microscopy:

The BioFlux DCIS comes complete with all the components necessary for high resolution microscopy imaging. High-quality camera and optics capture high-resolution images; LED illumination produces superior signal-to-noise ratios.

Ease of use : Intuitive control and analysis software provides a simple way to control many experiments at once. Each system is fully integrated to work with your existing lab setup. Montage advanced analysis software is also available.

One system, many uses :

The BioFlux DCIS runs a wide range of live cell applications covering microbiology, immunology, stem cells, cardiovascular, cancer, and more. Get the most out of your lab's resources.

The BioFlux DCIS provides a complete solution for live cell imaging under physiological conditions. The easy-to-use cell imaging system been designed with advanced capabilities to simplify demanding cell-based imaging applications with convenience and flexibility.

The BioFlux DCIS incorporates Fluxion's patented Well Plate Microfluidic technology with a fully integrated microscopy system to enable high throughput shear flow assays. The compact, integrated BioFlux DCIS system includes everything needed to start producing publication-quality data- where you want it and when you want it.

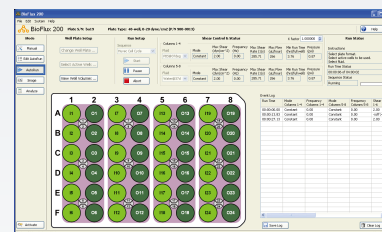
BioFlux DCIS System Overview:

BioFlux DCIS is a fully-integrated high content screening platform for bridging the gap between in vitro and in vivo experiments. It combines a compact, high-quality imager with the proven flow control of the BioFlux system- the BioFlux DCIS is ready to tackle all your flow-based assays.



BioFlux Controller delivers programmable shear flow to BioFlux plates. Covers a wide shear range (0.1-200 dyne/cm²) to address many physiological applications.

BioFlux Software provides a simple to use interface and offers complete control over experimental conditions, including dynamic control over shear flow changes.



Automated microscopy station combines high performance, compact size, cost-effectiveness, and ease of use, even for non-experts.



FLUXION

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Product specification**BioFlux Controller**

Shear flow range	0.1-200 dyne/cm ²
Temperature Control	ambient to 50°C (+/- 1°C)
Plate format	48 well, 24 well, 6 well, custom bottom and all PDMS
System options	Environmental gas control, pulsatile flow, dual gas control, Quattro for multiplexing up to 96 experiments at a time
Applications	Biofilm Formation, Host/Pathogen Interactions, Rolling/Adhesion, StemCells, Transmigration, Chemotactic Migration, Wound Healing, AngiogenesisBio
Dimensions	12" (W) X 13" (L) X 9" (H), 30cm (W) X 33cm" (L) X 22cm (H)

Digital Cell Imager

Illumination	LED light cubes (>50,000-hour life per light cube) with adjustable intensity
Fluorescence channels	Simultaneously accommodates 4 fluorescence cubes plus bright-field imaging. Broad selection of standard and specialty light cubes (more than 20 to choose from)
Contrast methods	Fluorescence and transmitted light (bright-field and phase-contrast)
Objective capacity	5-position; front-mounted control
Included objectives	10X, 20X
Condenser	60 mm LWD condenser, 4-position turret with a clear aperture and 3-phase annuli
Included imaging filter cubes	GFP, RFP, DAPI
Camera	High-sensitivity 1.3 MP CMOS monochrome camera with 1,328 x 1,048 pixels High-sensitivity 3.2 MP CMOS color camera with 2,080 x 1,552 pixels
Fits in hood or on benchtop	Yes
Dimensions	14" (W) x 18" (L) x 13" (H), 33cm (W) x 46cm (L) x 36cm (H)
Weight	16 kg (35 lb)

Computer and Software

Computer	16 GB RAM, Windows 7 Pro, 23" high resolution touch screen monitor
BioFlux control	BioFlux control software, including manual, AutoRun editor, AutoRun
Cell imager	Autofocus, Autoscanning, multichannel time lapse, Z-stack capability
Standard analysis	Cell tracking, intensity, image stacking, area coverage
Optional analysis	Advanced modules available with BioFlux Montage Software



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Typical Applications:

- Leukocyte adhesion compound screening
- Platelet adhesion assays
- Anti-microbial compound screening
- Stem cell assays for kinetics and differentiation
- Pharmacology / dose response assays
- Life cycle analysis (mitosis, apoptosis, etc.)

Ordering Information:

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