



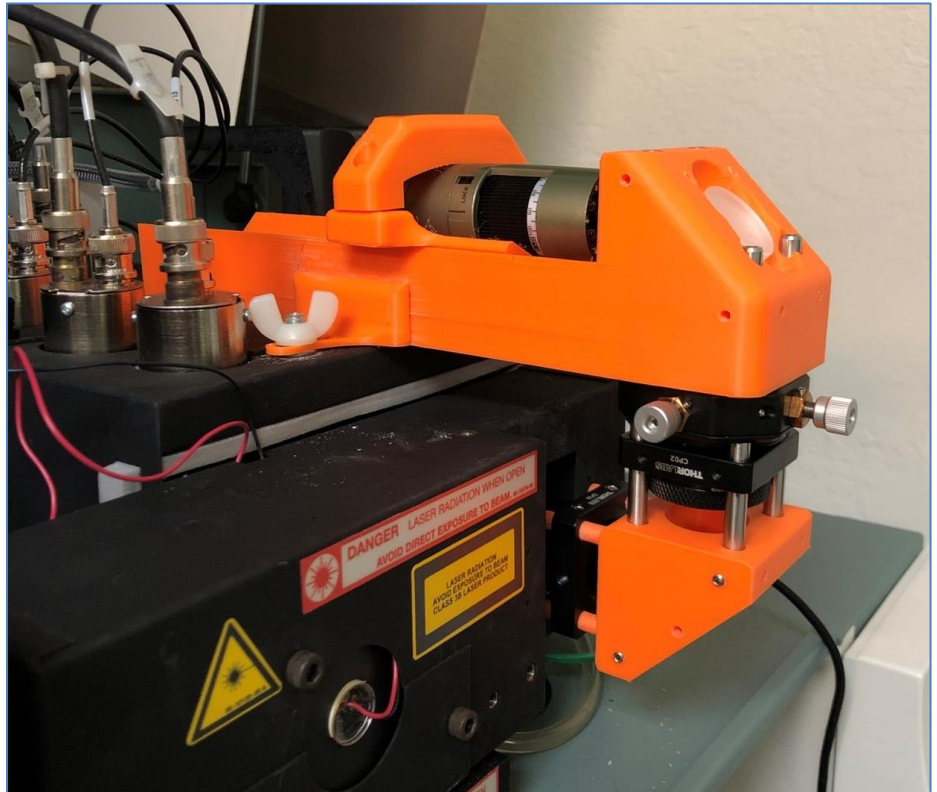
**Cavour**

## Flowcell Monitoring Module Tech Notes

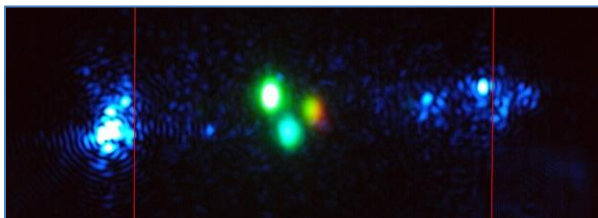
For many researchers performing cutting-edge research, and even for those working on routine applications using standard flow cytometers, the ability to monitor the flowcell can be crucial to the success of your experiments.

We designed and developed a dedicated, always-on **flowcell monitoring solution** to address this kind of need. Using standard off-the-shelf components and **customized mounts**, the **Cavour** Flowcell Monitoring System can be adapted to most commercial flow cytometry systems to give you the ability to know exactly what is happening inside your flowcell.

The **Cavour** Flowcell Monitoring Module uses a proprietary microscope design, coupled with the intuitive digital microscope software DinoCapture, to allow **continuous remote monitoring** of your system without removing the instrument cover. The live feed from the **Cavour**



*Close-up of the Cavour Flowcell Monitoring Module*



*Alignment is easy with the Cavour*

is displayed on the provided, dedicated Windows tablet for always-on monitoring. The **Cavour** enables researchers to verify **laser status**, check **flow stability**, **maximize signal** by optimizing the alignment of the laser and the sample stream, and to **set core stream dimensions**. It can also be used to easily troubleshoot common fluidics issues such as **bubbles and clogs**.

Most importantly, the **Cavour** allows you to **avoid unnecessary and costly service calls** and **reduce system downtime**, maximizing the operational efficiency of all of your instruments.

Fit your entire fleet of instruments with a **Cavour** and allow them to reach their full potential.

The **Cavour** puts the performance of your flow cytometer in your hands.

*The Cavour, or use thereof, may be covered in whole or in part by patents in the U.S. and other jurisdictions. A current list of applicable patents can be found at <https://www.kineticriver.com/kinetic-river-corp-patents>.*





## Flowcell Monitoring Module Specifications

### Optics

Field of view (FOV):

- 600  $\mu\text{m}$  (hor) x 400  $\mu\text{m}$  (ver)

Magnification:

- 50X (equivalent)

Spectral filtering:

- slot for optional laser-scatter-blocking filter
- 488-nm blocker provided

### Operation

- microscope feed displayed on Windows tablet
- all DinoCapture 2.0 software functions, including:
  - live monitoring
  - video capture
  - still image capture
  - on-screen measurements

### Installation Requirements

The microscope unit for a BD FACSCalibur is shipped pre-aligned and pre-attached to the optics box cover. Requires removal of window from laser light baffle.

Dimensions:

- microscope unit: approx. 10" x 5" x 8" (W x L x H)
- Windows tablet: approx. 10" x 7" x ¼" (W x L x H)

Weight:

- microscope unit: 750 g (1.7 lbs.)
- Windows tablet with DC adapter: 675 g (1.5 lbs.)

Environmental:

- 15°–30°C, 60% RH

Power:

- microscope unit:  
powered through Windows tablet (included)
- Windows tablet DC adapter:  
120–240 VAC, 50/60 Hz, 0.6A (worldwide)



A Cavour installed on a BD FACSCalibur™

