

Learn more....

Scan the QR code to visit our website and explore how iFluor can supercharge your discoveries.



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iFLUOR Specifications		
Microscopy System		
Imaging Methods	widefield, brightfield and fluorescence	
Fluorescence Channels	2	
Magnification	1.1 x	
Pixel Resolution	2.5 µm	
Acquisition Modes	single colour, time-lapse, multi-position, multi-well, no need for stitching	
Camera		
Sensor Type	CMOS	
Pixel Size	2.74 µm	
Field of View	10 x 10 mm²	
Image Bit Depth	8 - 10 - 12 bits, monochrome	
Illumination		
Excitation Wavelengths	470 nm	532 nm
Transmitted Wavelength	590 nm	
Stage specifications		
Motorised X Stage	travel range – 38.5 mm	
Manual Y Stage	travel range – 10 mm	
Motorised Z Control	travel range – 6 mm	
Supported Sample Holders	microscope slides (25x75 mm²) 35 mm Petri-dishes; 96-well microplates coverslips	
Incubator Compatibility	Okolab H301 - Mini stage incubator	
Microfluidics		
Number of Syringes	up to 4 syringe pumps	
Pump Functions	infuse/withdraw, individually programmable, cell culture maintenance	
Compatible Syringes	from 1 up to 10 ml	
Pusher Travel Rate	from 0.002 mm/min to 82.5 mm/min	
Flow Rates	from 0.036 µl/min (with 1 ml syringe) up to 15 637 µl/min (with 10 ml syringe)	
Heater	injected liquid heating up to 38°C	
Leakage Control	sensor for fluid pathways integrity	
Workstation (not included)		
Pc System (minimum requirements)	Windows™ 11 operating system Intel Core i7 13th generation 64 GB DDR4 RAM 12 GB Graphics Card	

DT-iFLUOR

DISCOVER iFLUOR THE ALL-IN-ONE LAB BOOST DO MORE. WAIT LESS.

Imagine transforming your lab workflow with a single, powerful system.

iFluor, developed by D-Tails, is a next-generation imaging platform that merges wide-field fluorescence microscopy with cutting-edge microfluidic technology.

Perfect for:

- **Neuroscience**
Imaging of neural cultures, brain organoids & Neurosetta platforms
- **Cardiomyocytes**
Track CM development & real-time beating with precision
- **Developmental Biology**
Model organisms (e.g., *C. elegans*) in dynamic, live-cell contexts
- **Cancer Research**
Rapid, scalable analysis of cancer cells in diverse microenvironments
- **Chemosensation**
Map sensory pathways with spatial & temporal accuracy
- **Drug Screening**
Boost throughput with custom microfluidic chips & multiplexed assays

No more waiting for shared equipment. No more interrupted workflows. Run high-throughput experiments remotely and continuously, maximizing lab efficiency and accelerating your research.

WHY CHOOSE iFLUOR ...

- **Massive Imaging Area**

Capture the full picture with a stunning $10 \times 10 \text{ mm}^2$ ultra-wide field of view - no stitching or sample repositioning needed.

- **Trial-Channel Versatility**

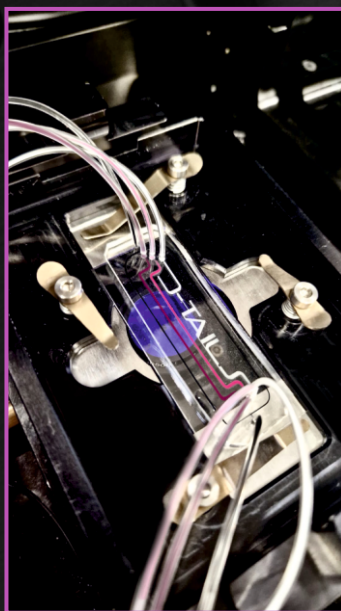
Customize your experiments with three fully adjustable channels (1 transmission + 2 fluorescence).

- **Tailored Configurations**

Adapt iFluor to your research - from C.elegans to organoids, cancer cell motility, cardiomyocyte function, and chemotaxis - using microfluidic chips, multi-well plates or small petri dishes.

- **Custom Microfluidic Chips**

Achieve your research goals with **iFluor**. Collaborate with the **D-Tails** team to design and optimize your microfluidic devices.



- **Powerful Proprietary Software**

Plan and automate long-term experiments with intuitive time-lapse programming, dynamic fluid delivery and streamlined data analysis.



- **Pinpoint Precision**

Detailed images with a $2.5 \mu\text{m}$ pixel resolution.

- **Lab-Friendly Design**

The compact benchtop system features a light-tight lid, allowing fluorescence experiments in ambient light.

- **Smart Microfluidics**

Control up to four integrated syringe pumps, equipped with temperature and leakage safeguards - ideal for microfluidic setups, live-cell cultures, and in vivo experiments.

- **Efficient Waste**

A smart waste collection system ensures clean, hassle-free operation.

- **Plug & Play Compatibility**

Seamlessly integrates with Okolab incubators H30I Mini for precise control of temperature, CO_2 , and humidity - ensuring a stable, contamination-free environment.

