

Portable Fluorescence Microscopes

- Viewing of fluorescent samples:
- Great where bench space is limited
- For samples >5-10um in size
- Great for education, science outreach and demonstrations
- Qualitative sorting of samples, eg sorting organisms that are expressing GFP or other fluorophores from those that are not
- Not suitable for quantitative fluorescence measurements



Demonstration: <https://youtu.be/Ebf2c3KsFa8>

Model	Fluorescence microscope
Field of view	1mm X 0.75mm
Magnification	X200 on a 9" tablet.
Excitation wavelength	465nm, other wavelengths on request
Emission wavelength	>500nm. Colour camera, so there is some discrimination of emission colour. Sensitive to green and yellow emissions, detects orange and red but not blue. Other emission wavelength options are available on request.
Brightfield	Fluorescence only, not for use in brightfield mode. Basic brightfield illumination is provided to help locate subjects.
Working distance (lens to sample)	1mm
Sample stage	1mm and 2mm: Glass
Display (not included)	Smart phone, tablet or computer with WiFi Direct connection, no internet connection or router is required
Image sharing	Images are saved to the photo gallery or download folder
ioLight app	Free for download from the Apple® or Google Play® app store Embedded web server connects to Google Chrome and most other browsers.



Image format	5MP (2592 x 1944 pixels); JPEG; colour Web server provides JPEG, PNG and BMP
Video format	MPEG-4; colour; up to 1296 x 972; 10 fps Not available on web server
Z-Stacking	Web server only: 12 images at different focus points May be stacked using Photoshop, ImageJ or other image software
Weight with pouch	450g
Dimensions	160mm x 101mm x 107mm, operating 160mm x 101mm x 32mm, folded
Power	Integrated Li-ion rechargeable battery with USB charger (supplied) Battery life: 5 hours (constant streaming)
Requirements	A tablet or phone running iOS 8.1 or Android 4.4 or higher, or a computer with WiFi and Google Chrome (or another web browser) We recommend newer, faster devices. Older low-performance devices may run the app, but are not recommended.
In the box	Your ioLight Magnificent Mobile Microscope USB charger, international model Protective pouch Users' guide and certificate of conformity



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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.