

Inverted Fluorescence Microscope

- Fluorescence, brightfield and darkfield imaging
- Fluorophores GFP, YFP, PI SYTO9, DS Red
- Views samples from below in flasks, well plates and Petri dishes or on slides
- Can be left inside a CO₂ incubator and sterilised
- 1 micron resolution for viewing cells
- Display images on a phone, tablet or computer without opening the door
- Instant sharing with colleagues anywhere
- Fast and simple to use
- Timelapse and remote view



Demonstration: <https://youtu.be/znB2MkBayYA>

Model	Inverted microscope
Fluorescence	Excitation 465nm, emission detected 500-700nm with colour camera to detect green, yellow and red emission. Suitable for a wide range of fluorophores including GFP, YFP, PI SYTO9, DS Red Fixed lens and filter cubes so that the microscope is sealed for use inside incubators. Easy sterilisation and cleaning
Field of view	1.2 mm x 0.9 mm
Resolution	1 micron
Maximum magnification	Equivalent to x10 objective, 0.25 NA
Working distance	0 to 3mm stage to sample
Maximum flask height	48mm, taller flasks on request
Illumination	Trans illumination modes: Brightfield; Low NA brightfield; High contrast brightfield; Darkfield and Digital phase contrast.
Display (not included)	Smart phone, tablet or computer with WiFi Direct connection, no internet connection or router is required

Model	Inverted microscope
Image sharing	<p>Images and videos are stored on the display device for easy sharing. Images can be viewed remotely in Google Photos or any image sharing software.</p> <p>Time-Lapse on Android devices.</p>
ioLight app	<p>Free to download from the Apple® or Google Play® app store Embedded web server connects to Google Chrome and most other browsers on any WiFi computer</p> <p>Microscope makes a WiFi hotspot, no router or infrastructure necessary</p>
Image format	<p>5MP (2592 x 1944 pixels); JPEG; colour</p> <p>Web server provides JPEG, PNG and BMP</p>
Video format	<p>MPEG-4; colour; up to 1296 x 972; 10 fps</p> <p>Not available on web server</p>
Z-Stacking	<p>Web server only: 12 images at different focus points</p> <p>May be stacked using Photoshop, ImageJ or other image software</p>
Weight	1.9kg
Dimensions	210 x 140 x 132mm, Taller flask models are >132mm high
Power	<p>Integrated Li-ion rechargeable battery, USB charger supplied.</p> <p>Power lead is sealed to prevent ingress of the atmosphere</p> <p>Battery life: 5 hours with constant streaming.</p>
Requirements	<p>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)</p> <p>We recommend newer, faster devices. Older low-performance devices may run the app, but are not recommended.</p>
In the box	<p>Your ioLight Microscope</p> <p>USB charger, international model</p> <p>Users' guide and certificate of conformity</p>