

Portable High-Resolution Microscopes

- Robust microscopes fit that into a jacket pocket
- 1 micron resolution for viewing cells
- Display images onto phone, tablet or computer
- Instant sharing to colleagues anywhere
- Fast and simple to use
- Used in the Arctic, Antarctica, Everest, The Amazon..
- Generally accepted in airline carry on baggage



Demonstration <https://www.youtube.com/watch?v=2WNmgcdGuEA>

| Model | 1mm and 1mm XY | 2mm and 2mm XY |
|-----------------------------------|---|--------------------|
| Field of view (X axis) | 1mm | 2mm |
| Resolution | 1 micron | |
| Maximum magnification | Approximately x400 | Approximately x150 |
| Working distance (lens to sample) | 1mm | 2.5mm |
| Illumination | Top and bottom, adjustable | |
| Sample stage | 1mm and 2mm: Glass 1mm XY and 2mm XY: Stainless steel with guide grooves | |
| 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 | |



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|-------------------|---|
| Z-Stacking | Web server only: 12 images at different focus points May be stacked using Photoshop, ImageJ or other image software |
| Weight with pouch | 1mm and 2mm, 400g. 1mm XY and 2mm XY 600g. |
| Dimensions | 160mm x 101mm x 107mm, operating 160mm x 101mm x 32mm, folded 160mm x 101mm x 37mm, folded with XY stage |
| Power | Integrated Li-ion rechargeable battery 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 Two carriages for slides and counting chambers (XY models only) |

Portable High-Resolution Microscopes with XY stage

- Perfect for counting applications. Worm Egg Counts, Yeast, Algae etc
- Allows manual movement of the subject independently in the left-right (X) axis and front-back (Y) axis. Methodically scanning slides and counting chambers
- Supplied with two carriages for standard microscope slides and counting chambers (25x75mm or 1"x2") and 32mm wide counting chambers
- Carriage is easily removed when not required



Demonstration: [https://youtu.be/ a9S M18ma4](https://youtu.be/a9S_M18ma4)

