

iolight



HIGH RESOLUTION PORTABLE MICROSCOPES

TRANSFORMING CONNECTED MICROSCOPY

The ioLight microscope displays laboratory quality images onto any smart phone, tablet or computer. Beautiful images can be viewed and shared instantly by the whole team. The microscope folds to fit a jacket pocket and can be used anywhere: on farms, in classrooms or even in the jungle.

- Laboratory quality images and video displayed on smart phone, tablet or computer
- 1 micron resolution for beautiful images of cells
- x200 magnification on an iPad - zoom to x400 or more
- Folds to fit your jacket pocket - take it anywhere
- Uses standard microscope slides and cover slips
- Top and bottom illumination to light any sample



APPLICATIONS

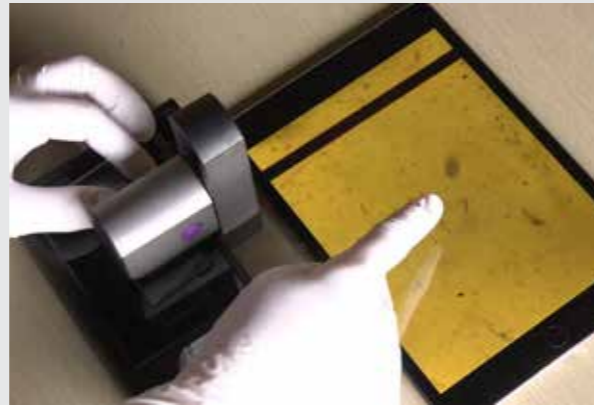


FIELD RESEARCH

The ioLight microscope displays detailed lab grade images on the screen of your smart-phone or tablet anywhere: in the rain-forest; on the mountain or at the archaeological dig.

The microscope's 1 micron resolution allows everyone to see animal and plant cells clearly. Images and videos are shared with colleagues at base camp at the touch of a button. When you are ready to move on, the ioLight microscope folds simply to fit a jacket pocket.

Image courtesy of Huw James/British Exploring Society.



FARM VETS

ioLight works with vets to improve farm productivity. Immediate diagnosis and prescription at the pen side leads to rapid cures and reduces costs. The microscope is the fundamental diagnostic tool and ioLight enables parasites and other conditions to be treated in a single visit.

The picture shows New Forest Equine Vets counting strongyle parasite eggs in a faecal sample using a standard McMaster chamber.



ENGINEERING

Micro-engineering companies can present their innovations to customers and investors everywhere. ioLight supports demonstrations in boardrooms, bars and even on buses. It links to tablets and projectors so everybody gets the picture.

The image shows a 30 micron wire bonded to an LED die by our partners Custom Interconnect Limited.



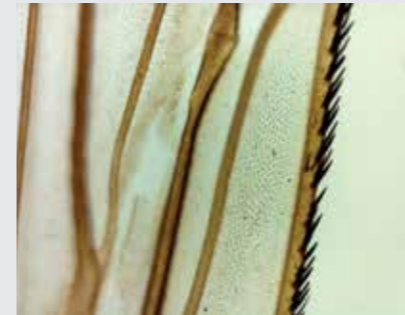
OUTREACH AND EDUCATION

The ioLight microscope is the perfect tool for science communication. It is child's play to use and everyone sees the same beautiful images. Best of all you don't have to squint through an eyepiece, so no fear of spreading eye infections.

You can even send your images to your audience straight from the tablet.

EXAMPLE IMAGES

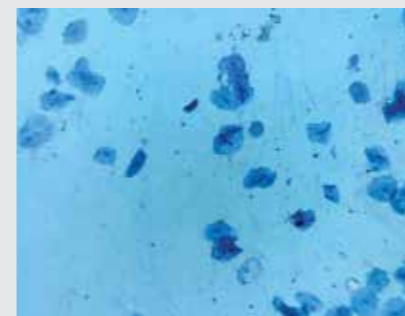
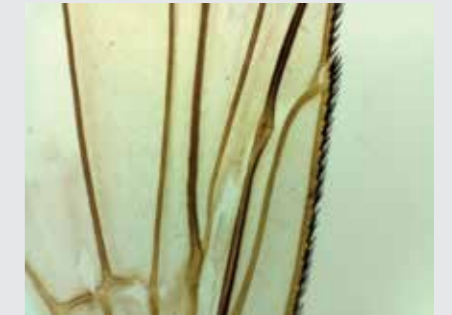
1MM MICROSCOPE



HOUSE FLY WING

Fantastic detail on the 1mm microscope, but you see a larger area on 2mm.

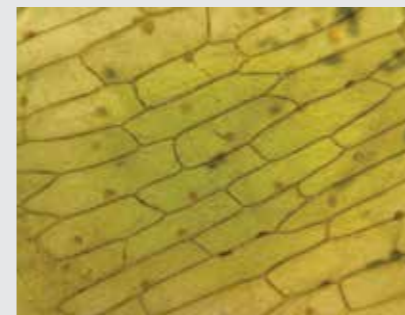
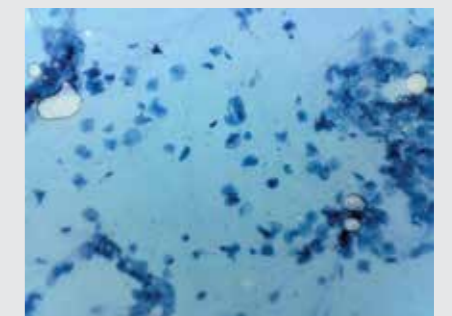
2MM MICROSCOPE



HUMAN CHEEK CELLS

Stained with methyl blue dye to improve contrast.

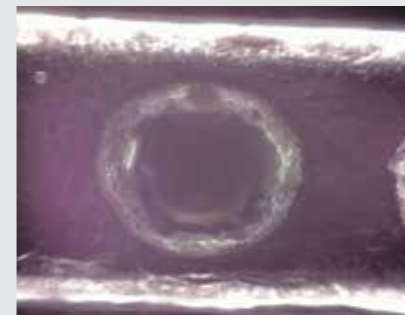
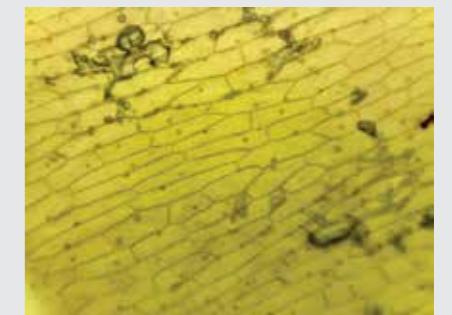
1mm clearly shows the cells and the nuclei, which are harder to see on the 2mm. However, the 2mm version makes cell counting much easier.



ONION CELLS

Stained with iodine.

1mm clearly shows the cells, cell walls and the nuclei. 2mm shows a larger area, but less detail.



COIN

ioLight recommends the 2mm microscope for opaque samples. It has a longer working distance so light from the top illuminator lights the subject beautifully.



SPECIFICATIONS

PRODUCT

Field of view (image width)

Magnification

Magnification with digital zoom

Resolution

Working distance (lens to sample)

Applications

Illumination

Sample stage

Image format

Video format

WiFi compatibility

Dimensions

Weight

Power supply

ioLight app

Case

1MM

1mm

x200 on 9.7" screens (iPad Air)

>x500 on 9.7" screens

Larger screens give more magnification (limited by resolution)

1 μ m (1 micron = 1/1000mm)

Similar to x20 objective and x10 eyepiece on conventional microscope

1mm

Highest resolution portable microscope. Ideal for cells and other applications where detail is required.

2MM

2mm

x100 on 9.7" screens (iPad Air)

>x250 ON 9.7" screens

2.5mm

Wider field of view, general purpose portable microscope. Cell counting applications. Ideal for opaque samples like coins and engineering components.

Adjustable top and bottom illumination

Glass

5MP(2592 x 1944 pixels); JPEG; colour

MPEG-4; colour; up to 1296 x 972; 10 fps

Images and videos are stored in the tablet's camera roll ready for sharing

iPad®, iPhone®, Android® and any computer with a web browser

Direct connection, no WiFi infrastructure or router is required

160mm x 101mm x 32mm (folded); 160mm x 101mm x 107mm (operating)

440g with neoprene case

Integrated Li-ion rechargeable battery (USB charger supplied)

Available for download free from the Apple® or GooglePlay® app store

Optional robust black polypropylene case available. See website for details

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