iolight

Quick Start Guide - Compact Cell Imager with fluorescence

Excitation wavelength - 465nm (blue) Emission wavelengths > 500nm (green - yellow - red)

Press power switch to switch on microscope. Wait 20 seconds until blue light flashes.

iPhone and iPad:

- 1. Download and install the ioLight app from the App Store
- 2. Connect iPhone / iPad to ioLightxxxxxx WiFi network
- 3. Start the ioLight app

Android:

- 1. Download and install the ioLight app from the Play Store
- 2. Start ioLight app & follow the on-screen instructions to connect to the microscope's WiFi network
- 3. Your device may tell you that there is no internet available on the iolightxxxxxx network, if it does, choose 'Stay connected to this network'
- 4. Wait a few seconds for live image from the microscope

Web Browser:

- 1. Connect your device's WiFi to the iolightxxxxx WiFi network
- 2. Open a web browser and type the address 192.168.1.1 into the URL bar
- Switch on top and / or fluorescence illuminators using the onscreen controls (see next page)
- Place sample on stage above the objective lens
- Focus the image using the knob
- Adjust fine focus using 'thumb wheel' on screen
- Save a high quality image by pressing the camera icon on screen the images are saved to your photos app or in your web browser's downloads directory
- Switch microscope off press and release the power button on microscope. NOTE: it takes 10 sec for the microscope to switch off and the blue light to go out



Serial number on base

Apps (Android and iOS)





Microscope battery charge level





Illumination from above sample:

- 0 Off 1 - Brightfield
- 2 Low NA Brightfield
- 3 Darkfield
- 4 All on

Fluorescence illumination from below sample

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- 0 Off, florescence filter disengaged
- 1 Off, florescence filter disengaged
- 2 Off, florescence filter engaged
- 3 On, florescence filter engaged
- 4 On high, florescence filter engaged

Save image - hold icon to record Z-stack of 9 images at different fine focus positions

- Record video
 - Time-lapse images see below
- Settings see below

Fine focus. Tap the white triangle on the left hand side of the fine focus thumbwheel to centre focus

Pinch on image - Zoom

Settings

HD mode:

On = high definition live image

Off = standard definition live image (best for general usage - higher frame rate and less prone to interference on live video NOTE - HD mode DOESN'T affect saved images - saved images are always highest resolution

Screen grid:

Use pre-set for your model microscope, or the slider or numerical box to set the desired number of grid squares across the image

Time-lapse

Set the interval between images, and the duration. Minimum interval = 20sec (2min for Z-stack)

If you hold your finger on the Time-lapse icon you get a Z-stack Time-lapse ie the microscope takes 9 images at different fine focus settings at each time point in the Time-lapse sequence.

Time-lapse imaging can run for a very long time so it is recommended that you:

- Connect your microscope and Android/iOS device to their chargers
- Ensure that there is sufficient storage space on your Android/iOS device for the images (approx. 2-3Mb per image)
- Leave the ioLight app visible for the duration of Time-lapse

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Web Browser



Web browser only

^o Microscope power off

Save 12 images for Z-Stack

Save Digital Phase Contrast image (takes several seconds)

Pinch, or mouse thumb wheel to zoom

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Web browser Settings menu After changing a setting, press 'Apply Changes' 'Default Settings' resets settings for brightfield 'High Contrast Settings' sets high contrast for low contrast samples such as unstained cells Phase Range sets the amount of focus offset above and below current focus for the digital

In the 'Keyboard Shortcuts' tab you will see shortcuts to access many settings more quickly

phase contrast image (range is 0-200)

Settings in the Web Browser Settings Menu also take affect when using the iOS & Android apps

For full user guide go to https://iolight.co.uk/user-guide/